CONVISION TECHNOLOGY

# Convision V600 A Series

Version 4.0
english

INTERNET VIDEO SOLUTIONS

# Convision V600 A Series

**User Manual**

Version 4.0

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## General

Congratulations on purchasing a unit of the Convision V600 A Series.

The Convision V600 A Series is available in the following versions:

- Convision V600 A
- Convision V610 A  Convision V610 A XL  Convision V610 A XXL
- Convision V611 A XL

Many of the descriptions and instructions contained in this manual apply to all the versions. In this case, the name "Convision V6xx A" is used.

This manual intends to convey the knowledge required to connect and handle your Convision V6xx A. In the appendix you will also find general information on configuring the required software on your computer. You do not need any special software to operate the Convision V6xx A since all the components are generally included in the standard software package supplied with the computer.

Please read this manual before connecting your Convision V6xx A.
You can download the latest update of the Convision V6xx A manual and the Convision V6xx A firmware free of charge from the Convision Website (www.convision.de).

**Operate the Convision V6xx A and the cameras exclusively with 12 V DC.**

## Step by Step Procedures

1. Meeting the System Requirements – refer to Chapter 3
2. Connecting the Components – refer to Chapter 5
3. Configuring the System – refer to Appendix A, Appendix B
4. Setting up Your Browser – refer to Appendix D
5. Configuring Your Convision V6xx A – refer to Chapter 6 and 9

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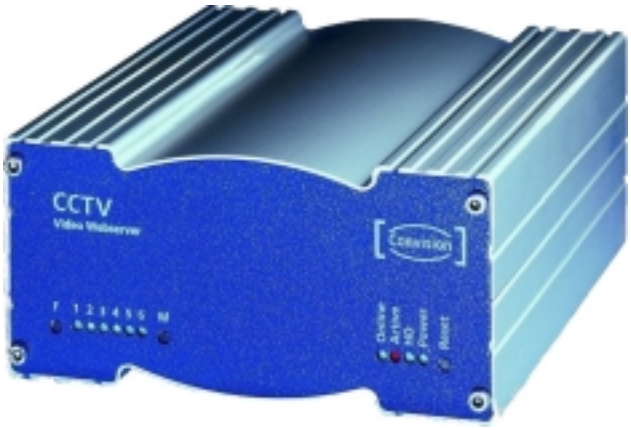
# 1 General Information

## 1.1 Scope of Delivery

After unpacking, make sure that all the parts have been delivered.

Convision V6xx A
Power pack DC 12 V/1.5 A
Power cable
ISDN cable
CD-ROM with Convision IPSetup tool
Manual




The device type and the serial number are on an adhesive label underneath the Convision V6xx A. This information is also included in the manual and on the HTML pages in the "Information" menu (refer to chapter 8.8). In the "Information" menu, you can also check the current software version of your Convision V6xx A.

## 1.2 Safety Instructions

The Convision V6xx A is a high-quality electronic product. Please follow the safety instructions below to prevent damage:

Never place the Convision V6xx A near a heating source e.g. furnace or heaters or expose it to direct sunlight.
Do not cover the Convision V6xx A.

Only clean Convision V6xx A using a moist cloth only without abrasive cleaning agents and install your Convision V6xx A where it is protected against splash water.

Never open the Convision V6xx A yourself. In the event of a malfunctions or defects, please contact the Convision Technology GmbH support service or your dealer.
Opening the unit invalidates the warranty!

# 2 Product Variations

## 2.1 Convision V600 A

As many as 6 cameras with PAL/NTSC composite signal can be connected to the basic device of the Convision V600 Series, the Convision V600 A – a CCTV (Closed Circuit Television) Web server. The video data are transmitted either via TCP/IP in a local network, via a single or dual ISDN channel or via an analog modem.

There are 6 alarm event inputs for surveillance functions and two outputs for the direct control of the alarm devices. Additional devices such as pan/tilt cameras or cameras with zoom functions can be controlled via the serial interfaces.

In the integrated services digital network (ISDN), it is possible to transmit audio data parallel to the image data on the second B-channel.

Other devices of this series are available that are equipped with all the basic functions of the Convision V600 A and offer various additional features.

All the variants have an identical basic configuration.

## 2.2 Convision V610 A

This variant of the Convision V600 A is equipped with a 2.5" hard disk for long-time recording.

| | | |
|---|---|---|
| Versions: | Convision V610 A | with a HDD of at least 10 GB |
| | Convision V610 A XL | with a HDD of at least 20 GB |
| | Convision V610 A XXL | with a HDD of at least 30 GB |

The internal notebook hard disk ensures a recording time of 9 hours per GB of hard disk space at 1 frame per second (resolution 384 x 288, frame size 32 KB).
With a resolution of 192 x 144 (8 KB) it is possible to record up to 36 hours per GB of hard disk space at the same recording speed.

Before taking the Convision V 610 A into operation, it must be configured in the same way as the Convision V600 A (setting the IP address and the like).
Please refer to Chapter 8 for more information on the recording and playback functions.

## 2.3 Convision V611 A

The Convision V611 A is a Convision V600 A with the GSM and long-time recording modules.

This GSM variant features an integrated GSM900 cellular system which means that wireless data transfer is possible. The operating voltage can be supplied using a 12 V battery – e.g. a car battery – to ensure the full scope of mobile functionality.

The messages are received either via a GSM 900 cellular phone or via an analog modem.

For data transmission, the Convision V611 A requires a SIM card (not included in the scope of delivery). In addition, an antenna terminated with an FME connector (female) is required (not included in the scope of delivery).

Versions: Convision V611 A XL with a HDD of at least 20 GB

Please refer to Chapter 8 for more information on the recording and playback functions.

Please refer to Chapter 9.1.2 for information on configuring the GSM modem.

# 3 System Requirements

## 3.1 Requirements for Operation in an ISDN Telephone Network

For configuring and operating the Convision V6xx A via ISDN, you need an basic ISDN access.

The Convision V6xx A is completely ready for connection via ISDN, which means the user need not perform any installation works. The Convision V6xx A has been equipped with an ISDN card and the required ISDN software has been installed. For configuring the connections that are to be established via the ISDN interface, please refer to Appendix A.

If you want to make further settings for the Convision V6xx A (e.g. TCP/IP, camera settings etc. ) via the ISDN interface, you need a computer with ISDN capabilities. For more information, please refer to Chapter 6.1.

## 3.2 Requirements for Operation in a Local Area Network (LAN)

For installing the Convision V6xx A in a LAN, you need a computer with an Ethernet interface. The Convision V6xx A requires a 10 Mbit twisted pair (TP) connection.

For detailed information on cabling, please refer to Chapter 5.2.

## 3.3 Software Requirements

To be able to configure the Convision V6xx A, you need an Internet browser that supports Java such as Microsoft Internet Explorer 4.x or Netscape Navigator 4.x. You do not need any special software to operate the Convision V6xx A since all the components are generally included in the standard software package supplied with the computer.

On computers with an MS operating system, you can configuere the system by using Convision IPSetup directly in the form of an .exe file. In the case of other operating systems, you have to install a "JVM" (Java Virtual Machine), if not yet installed.

# 4 Controls, Connectors and Indicators

The Convision V6xx A is equipped with various controls, connectors and indicator lamps (LEDs). These are described below.

## 4.1 Front View

***Figure 1: Front view of the Convision V6xx A***

- F button: deletes the hard disk.
- LEDs 1-6: these light up when a camera is connected to the corresponding port; they flash when the respective camera is being accessed.
- M button: deletes the configuration.
- Online LED: is lit when the Convision V6xx A proactively established a connection.
- Active LED: is lit when the alarm function of the Convision V6xx A has been switched to "alert".
- HD LED : (HD = hard disk); is lit when data is written to or read from the hard disk (option).
- Power LED: lights up as soon as the Convision V6xx A is connected to the power supply and switched on.
- Reset button: when this button is activated, the Convision V6xx A is reset. This means the Convision V6xx A is rebooted and re-initialized.

***<u>Never</u> press F and M together when you switch on the Convision V6xx A as this would cause the entire software to be deleted.***

## 4.2 Rear View

All the external connectors are located on the rear panel of the Convision V6xx A.

Connectors of the Convision V600 A/610 A:

- CAM 1 ... CAM 6: You can connect six independent FBAS cameras to these connectors.
- COM 1: Serial interface: is used to control external devices, e.g. a pan/tilt camera, weather station etc.

- COM 2: Serial interface: is also used to control external devices. An analog modem can be connected to this interface.
- Ethernet: 10 Base T connection for operating the Convision V6xx A in a LAN.
- ISDN: This connector is used for operating the Convision V6xx A via an ISDN multi-device access.
- Audio: This is the connector for the microphone and loudspeaker of an audio transmission device, e.g. a door intercom system.
- Power switch: used to switch the device on and off.
- Power, 12 V DC: This is the connector for the power pack supplied with the unit.
- I/O Connector: This connector is for additional devices, e.g. smoke and motion detectors (refer to Chapter 5.7).

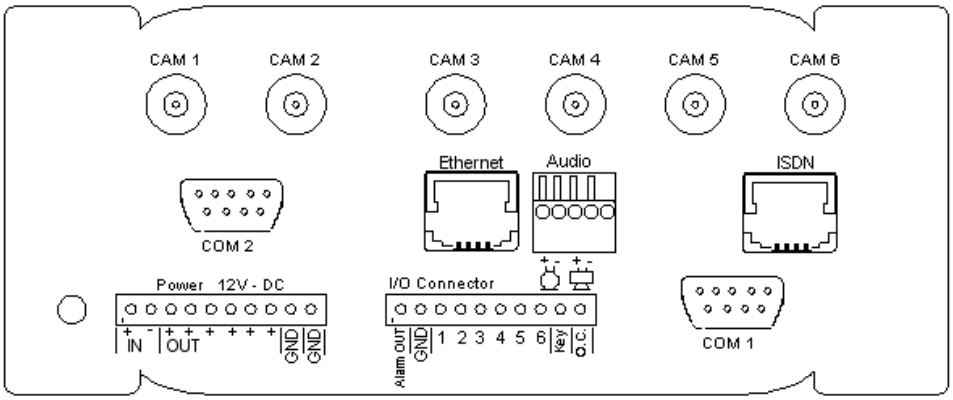



***Figure 2: Rear view of the Convision V600 A/610 A***

Convision V611 A only (refer to the figure on page 11)

- SIM card: slot for the SIM card
- ANT: Connector for the antenna for GSM transmission
- The COM2 port has been hard-coded for connecting the GSM modem. External devices can be connected to COM1 only.

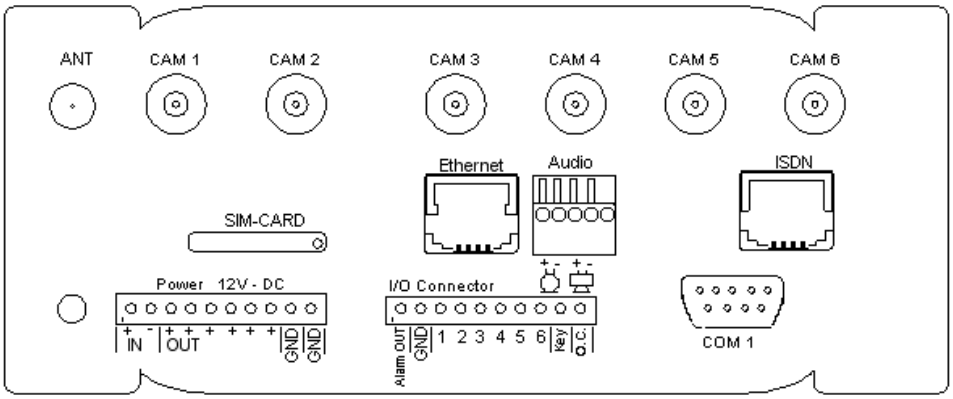



***Figure 3: Rear view of the Convision V611 A***

# 5 Connecting the Convision V600 A Series

There are three possibilities of operating the Convision V6xx A. You can operate it either in a Local Area Network (LAN), via ISDN or an analog modem or via GSM (Convision V611 A).

For **initial configuration** of the unit, there are two additional direct connection options (refer to Chapter 6).

- Via a cross-connect cable, refer to Chapter 6.3.
- Via the serial interface using a null modem cable, refer to Chapter 6.4.

## 5.1 Connecting the Unit to the Power Supply

Connect the 12 V DC plug of the power pack connecting cable to the 12 V DC Power connector (female) of your Convision V6xx A. Connect the power pack provided with the unit to the power supply socket using the power cable. Activate the Power switch on the rear of the unit. The Power LED will light up.

## 5.2 Connecting the Unit to the LAN

In a LAN, you have to establish a connection between the Convision V6xx A and your computer via a hub or switch using a twisted-pair cable with an RJ-45 connector.

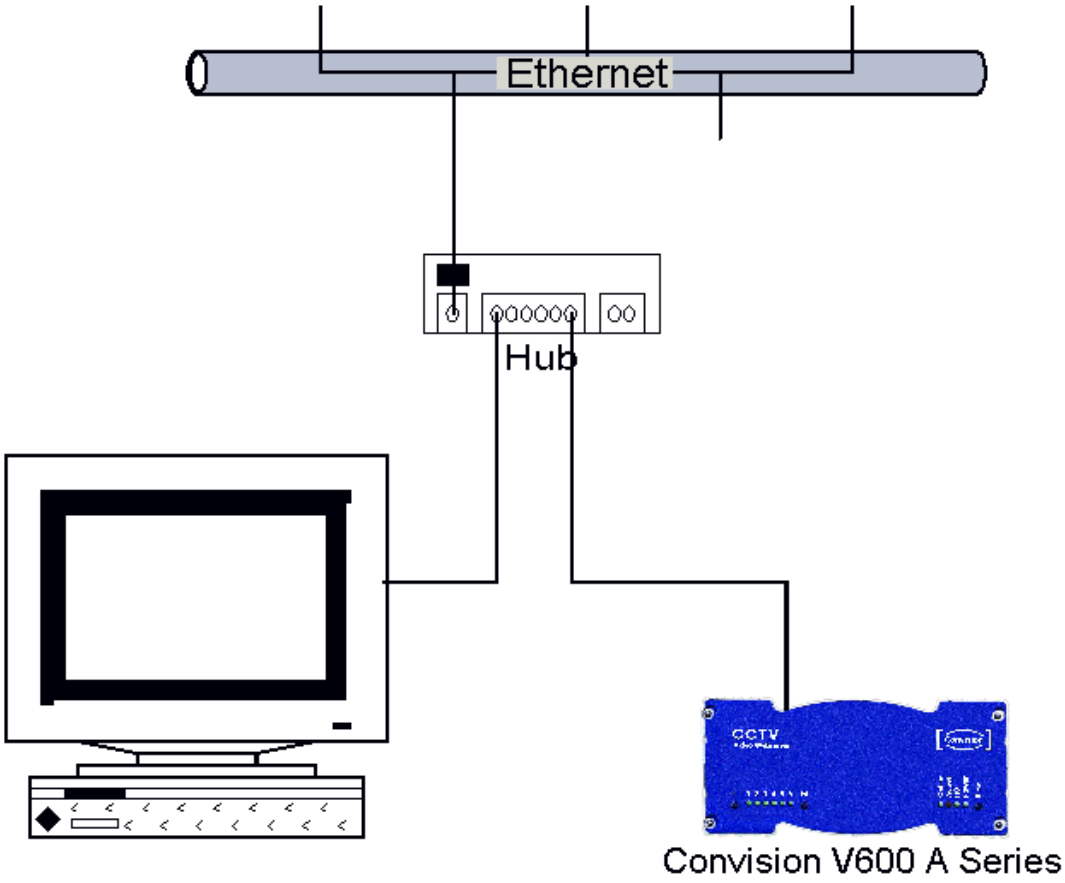



***Figure 4: LAN connection***

1. Connect one end of the TP cable to the Ethernet output on the rear of the Convision V6xx A. (refer to Figure 2: Rear view of the Convision V600 A/610 A or Figure 3: Rear view of the Convision V611 A).
2. Connect the other end of the TP cable to one of the inputs on the hub.
3. For information on setting the IP addresses, please refer to Chapter 6.2. For detailed information on IP addresses, please refer to Chapter 10.8.

☛ ***Note:*** *If you want to connect the Convision V6xx A directly to your PC, use a cross-connect cable to connect the two devices. This is an eight-pin twisted pair cable with crossed pin assignments (refer to Chapter 6.3).*

## 5.3 Connecting the Unit to the ISDN

Your telecommunications network operator provides ISDN access via a network terminator (NT).

1. Plug one end of the ISDN cable provided (labeled "ISDN") into the ISDN port on the rear of the device (refer to Figure 2: Rear view of the Convision V600 A/610 or Figure 3: Rear view of the Convision V611 ).
2. Plug the other end of the cable into the RJ-45-connector (female) of the ISDN network terminator.

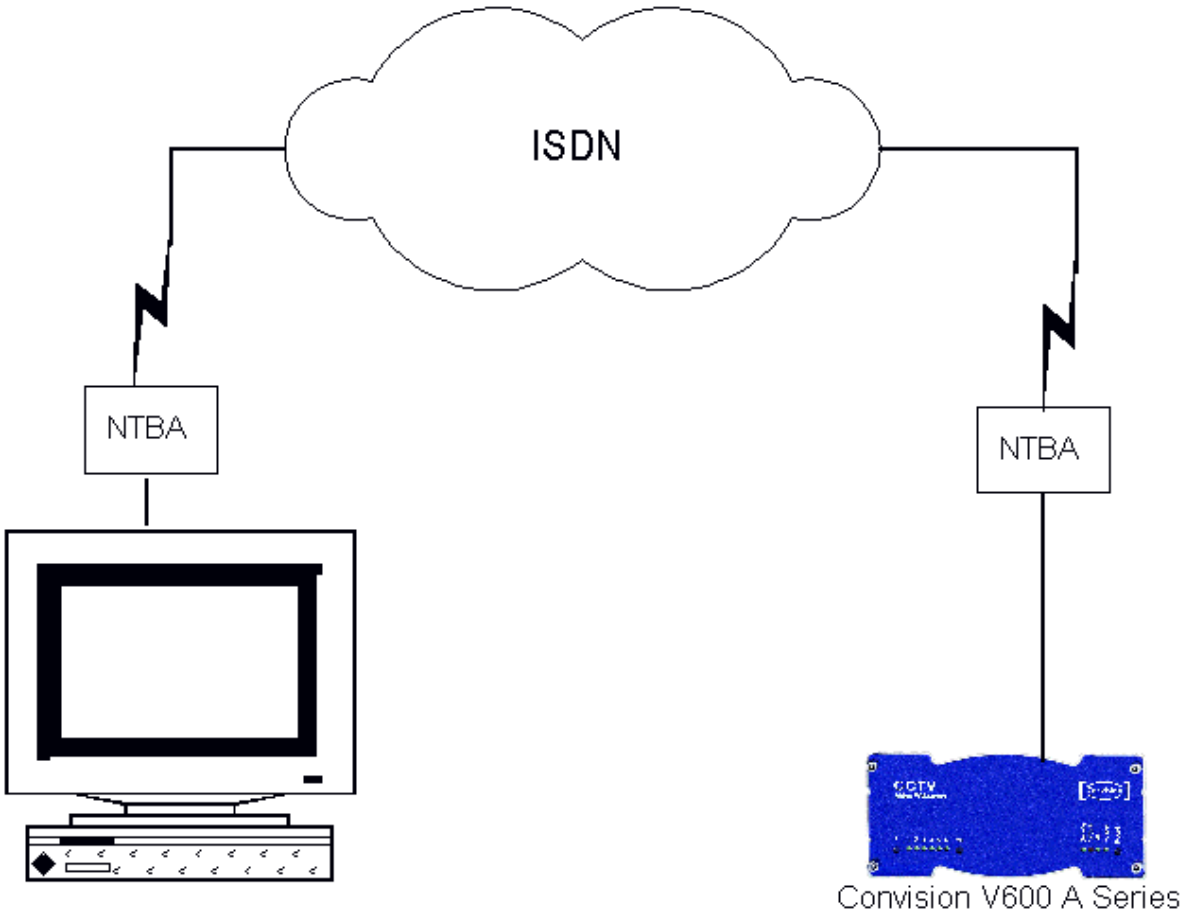



***Figure 5: Connection via ISDN***

To be able to communicate with your Convision V6xx A via ISDN, your computer must be equipped with the appropriate ISDN hardware (e.g. ISDN card). For information on installing ISDN hardware, please review the respective manuals of your computer and of the device to be installed. In addition, you have to configure a dial-up networking on your computer (refer to Appendix A).

## Operating the Unit Connected to Telecommunications Equipment (ISDN Telecommunications Equipment)

If you want to operate your Convision V6xx A connected to telecommunications equipment, you have to connect the Convision V6xx A to the $S_0$-bus in parallel to an ISDN telephone that can be accessed from your computer.
For initial configuration of the unit, dial the telephone number assigned to the telephone connected. Since this is a data call, the phone will not answer (i.e. the phone will not ring) but the Convision V6xx A will answer the call.

☛ ***Note:*** *In the case of telecommunications equipment it may be necessary to enable data transmission for the access. For this purpose, contact the manufacturer of the telecommunications equipment.*

## 5.4 Connecting the Unit via Modem

To operate the Convision V6xx A via an analog modem, connect the modem to the 2nd serial interface (COM 2) of your Convision V6xx A using a serial cable. Connect the modem to the telephone socket using the telephone cable and to the power supply via the power pack. For information on configuring the unit, please refer to Chapter 9.1.2.

## 5.5 Connecting the Cameras

Proceed as described in the following to connect one or several cameras to the Convision V6xx A:

1. To supply the camera with 12 V DC, connect the "+" cable of the camera to the 12V DC plug, which is then connected to the 12V DC Power connector (female). The BNC connection provides the mass connection (GND).
2. Connect the BNC connector to a camera input on the rear of the Convision V6xx A.

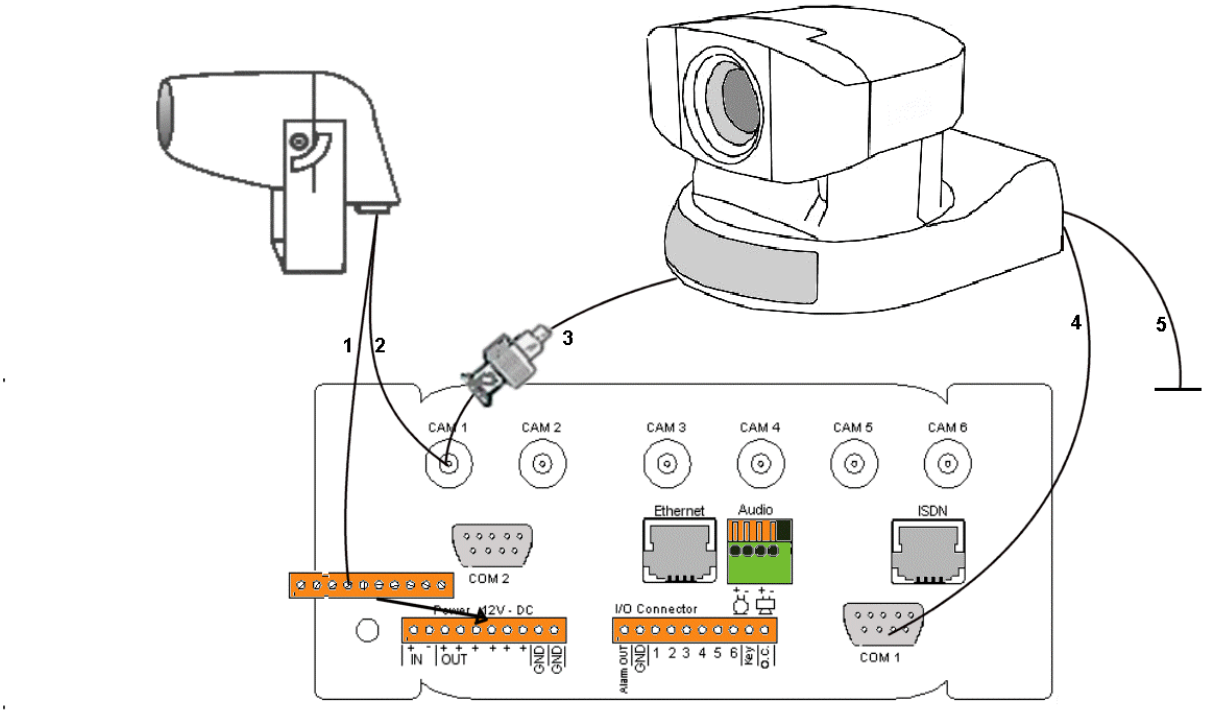



***Figure 6: Camera connections***

### Connecting a Controllable Camera

3. Connect the video cable via the adapter supplied (Cinch on BNC) to one of the camera inputs on the rear of the Convision V6xx A.
4. Additionally, you have to connect the control cable (9pin Sub-D to 8pin mini DIN) to one of the serial inputs (COM 1 or COM 2) of the Convision V6xx A.
5. The camera is supplied with power via the power pack supplied.

6. Define the serial input used on the Configuration / System / Device page (refer to Chapter 9.1.11).

If you want to connect several controllable cameras to a Convision V6xx A, all the cameras following the first one are controlled via series cable connectors of the individual cameras (8pin mini DIN connectors). The cameras are then individually controlled via internal port addresses.

*In some controllable cameras you have to set an internal control address. For this purpose, please use the addresses starting with "1".*

For controlling a camera not supported by the Convision V6xx A you have to enable the "Serial-URL-Port" option on the Configuration/System/Device page. For more information on this topic, please read Chapter 9.1.11 – Serial-URL-Port. The unit is controlled via a separate applet that can be uploaded to the Convision V700 (refer to Chapter 8.6 and 9.1.4).

*You cannot operate 2 different types of controllable cameras simultaneously via the Convision V6xx A.*

# 5.6 The Key-Operated Switch

The key-operated switch is connected as shown in the figure.

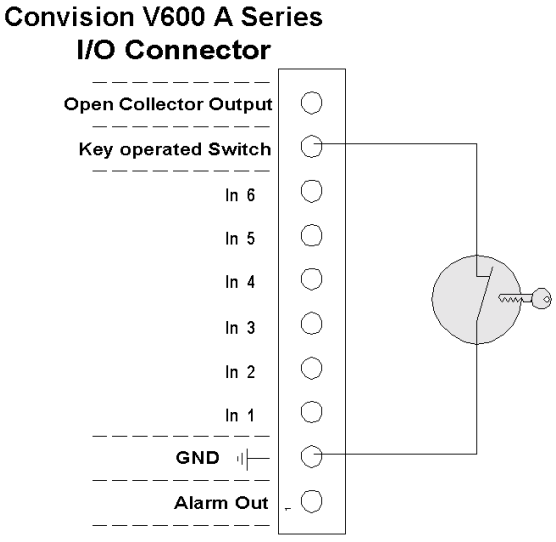



***Figure 7: Key-operated switch***

The key-operated switch is used to activate the alarm function. If a key-operated switch is not connected, the Convision V6xx A is automatically activated. In this case, the red "Active" LED will be lit.

| | |
|---|---|
| Switch unlocked | Alarm function activated |
| Switch locked | Alarm function deactivated |

## 5.7 Input and Output Connections

Connect only devices that have been designed for 12V to your Convision V6xx A**.**
**Never use 230 Volts on your Convision V6xx!**

### 5.7.1 Example: Input Connections

Alarm devices for various purposes can be connected to the six inputs. Please observe that only 12 V devices may be connected to the inputs.

Since the inputs respond to low/high level changes, the components must be closed in the idle state (NC type normally closed, "break contact").

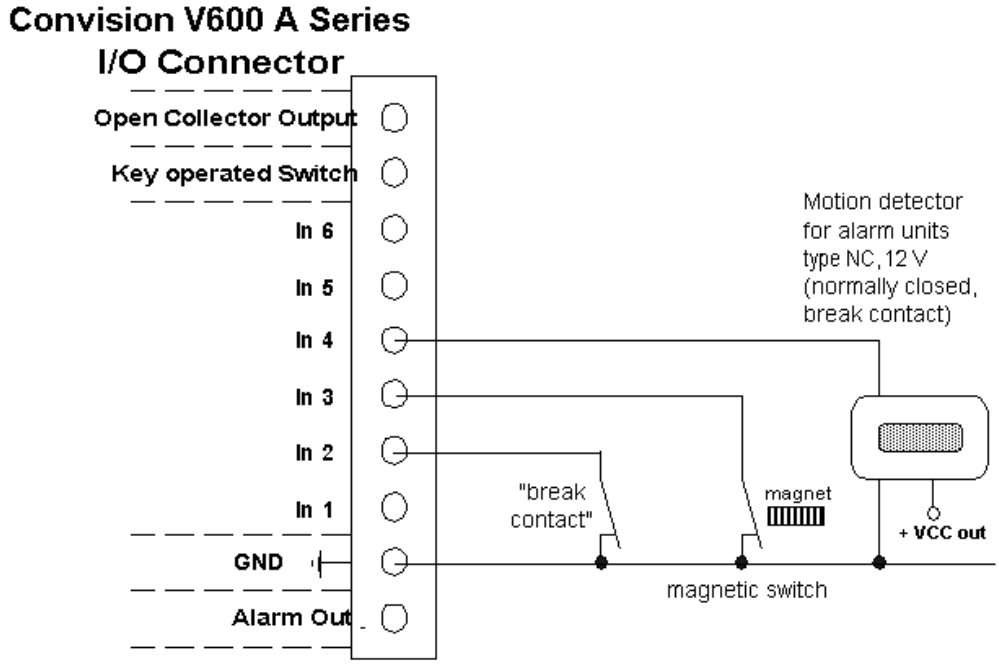



***Figure 8: Example of the input connections***

## 5.7.2 Example: Open Collector Output Connection

A relay via which higher power is then supplied, for example, can be connected to the open collector output (OC). The breaking capacity of the OC output is 12V /100 mA.

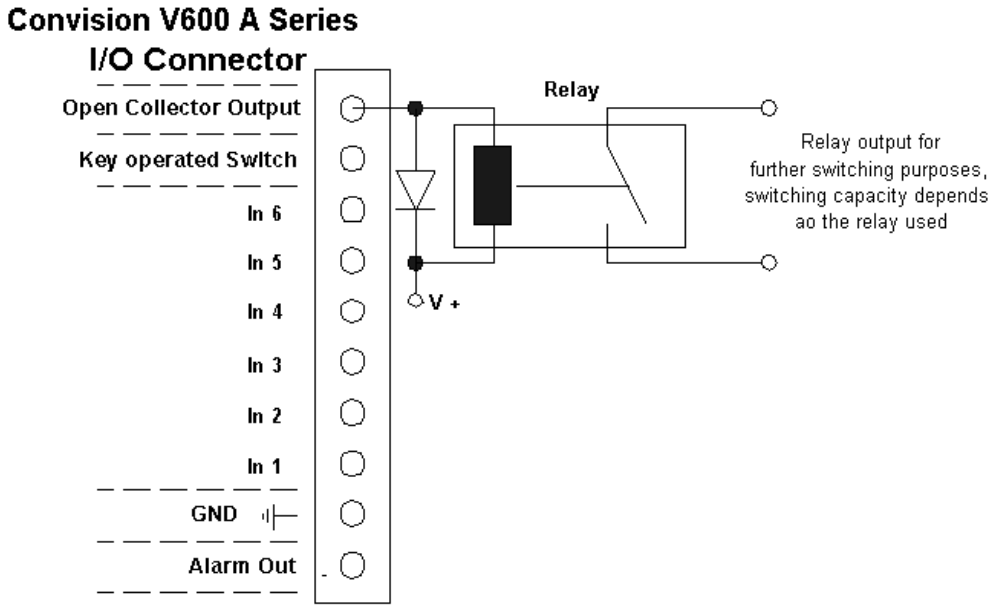



***Figure 9: Example of an OC output connection***

## 5.7.3 Example: Alarm Output Connection

An indicator lamp, for example, or any other 12 V signal device (e.g. siren), can be connected directly to this output. The maximum load for this switching output is 12 V/500 mA.

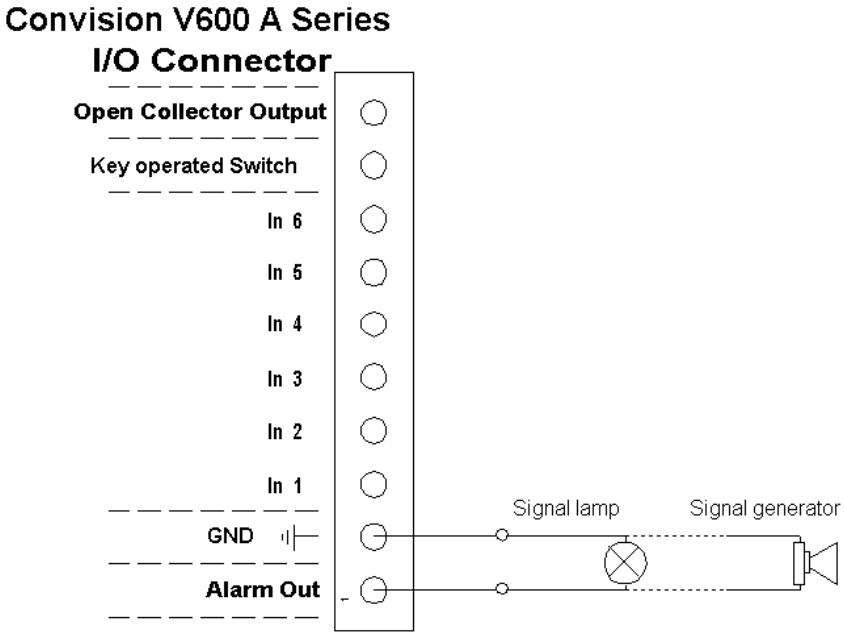



***Figure 10: Example of an alarm output connection***

# 6 Initial Configuration of the Convision V6xx A

For information on the local configuration of your computer, please refer to Appendix B. For information on setting up the browser, please refer to Appendix D.

To establish the first connection with the Convision V6xx A, please follow the configuration procedure in this chapter. If you have already succeeded in establishing a connection with the Convision V6xx A, you can skip this chapter. To customize the configuration of your Convision V6xx A, refer to the detailed description of the configuration options in Chapter 8.8. There, you will find a description of the menus and buttons together with their functions.

When delivered, the Convision V6xx A is not configured, i.e. it has not been assigned an IP address or MSN (multiple subscriber number). This is indicated by the slowly flashing Online LED following the booting procedure. For this reason, the unit must be configured . The configuration software "IPSetup" is on the "Products + Partners" CD in the "Software" folder.

There are four different ways to set up the Convision V6xx A depending on your connection.

1. MSN configuration via ISDN
2. IP configuration in a local area network
3. IP configuration via a direct link between the PC and the Convision V6xx A using a cross-connect cable
4. IP configuration via a direct link via the serial interface using a null modem cable

## 6.1 MSN Configuration via ISDN

To set up the Convision V6xx A via ISDN, you have to install a dial-up networking on your computer. For information on this topic, please refer to Appendix B.

Once dial-up networking has been configured for establishing a connection to the Convision V6xx A, you can set up the unit. To connect to the Convision V6xx A, establish a dial-up connection. **Do not enter a username** or **password** (refer to PPP Password, Chapter 9.1.2) and click the "Connect" button. The ISDN connection to the Convision V6xx A will be established.

For operation via ISDN, the IP address 10.0.0.10 has been preset for your Convision V6xx A but you can change it.

1. Start your browser and enter http://10.0.0.10 as the URL. Your browser will display the homepage of the Convision V6xx A.
2. Click the "Configuration", "Connections" and "ISDN/Modem" buttons one after the other.
3. Enter the multiple subscriber number (MSN) assigned.

4. If defined, enter the PPP password to prevent unauthorized connection setup.
5. Save the data.

*If you operate more than one piece of ISDN equipment on one ISDN connection, you have to assign each unit a separate MSN number to prevent conflicts.*

## 6.2 IP Configuration in a Local Area Network

Follow the installation procedure below to set up the Convision V6xx A in the LAN:

1. Install and configure your LAN network (refer to Appendix B).
2. Integrate the Convision V6xx A into your LAN network as described in Chapter 5.2.
3. Copy the configuration software "IP Setup" from the CD into a directory on your computer.
4. Open the Convision IPSetup program. For this purpose, the computer must be in the same network segment (defined by the network mask) as the Convision V6xx A . In Windows, the program is launched using "IPSETUP.EXE".
   As this is a Java program, it can also be started by opening "java IPSetup".
5. After a few moments (max. 1 min) the program will display the Convision V6xx A. If the program is not automatically started, double-click the entry and then enter the IP address and the network mask. (For more information about IP addresses and network masks refer to Chapter 10.8).

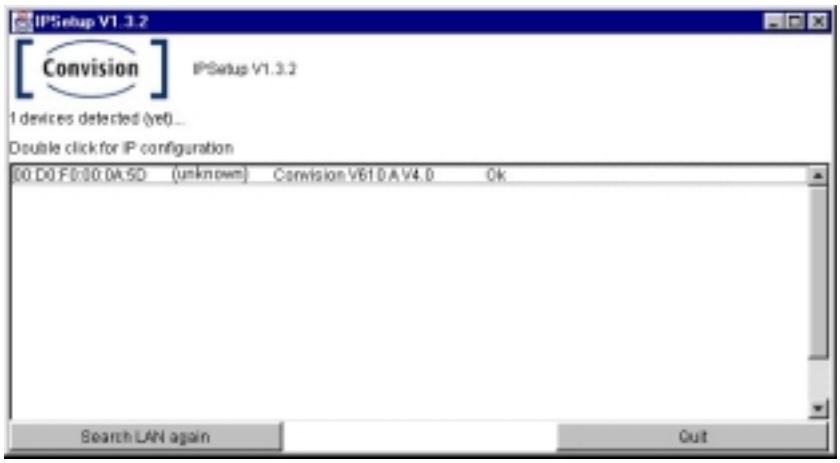



***Figure 11: Initial configuration using Convision IPSetup***

## 6.3 IP Configuration via a Direct Connection Using a Cross-Connect Cable

The following hardware and software is required to set up the Convision V6xx A via a cross-connect cable:

- an Ethernet cross-connect cable
- a computer with an Ethernet network access
- the CD containing the IP Setup software for the Convision V6xx A

Next follow the instructions below:

1. Connect the Convision V6xx A directly to the LAN card in your computer using a cross-connect cable.
2. Copy the configuration software "IP Setup" from the CD to a directory on your computer.
3. Open the Convision IPSetup program. In Windows, the program is launched using "IPSETUP.EXE".
   As this is a Java program, it can also be started by opening "java IPSetup".
4. After a few moments (max. 1 min) the program will display the Convision V6xx A. Double-click the entry and enter the IP address and network mask. (For more information about IP addresses and network masks refer to Chapter 10.8).

## 6.4 Initial configuration via the Serial Interface Using a Null Modem Cable

If the set up methods described above are not feasible, you can also configure the Convision V6xx via the serial interface (COM 1 of the Convision V6xx A). For this purpose, you need a null modem cable and a terminal program. To ensure successful set up, strictly follow the installation procedure described below carefully:

1. Connect the Convision V6xx A (important: connect the cable to COM1 of the Convision V6xx A ) to a serial interface of your computer via a null modem cable.
2. Start a terminal program on your computer and establish a connection to the Convision V6xx A. For information on configuring the "Hyperterminal" program in a Windows operating system, refer to Appendix C.
3. Start the terminal program , in Windows by double-clicking the "Convision V6xx" icon or establish a connection to your Convision V6xx A using following parameters:
   9600 baud
   8 data bits
   no parity
   1 stop bit
   no handshake
4. Press the question mark key on your keyboard to display the control mask of the Convision V6xx A.
5. Press "1", enter the IP address and confirm with "Enter". (For more information about IP addresses and network masks refer to Chapter 10.8).
6. Press ”2”, enter the IP net mask and confirm with ”Enter”.

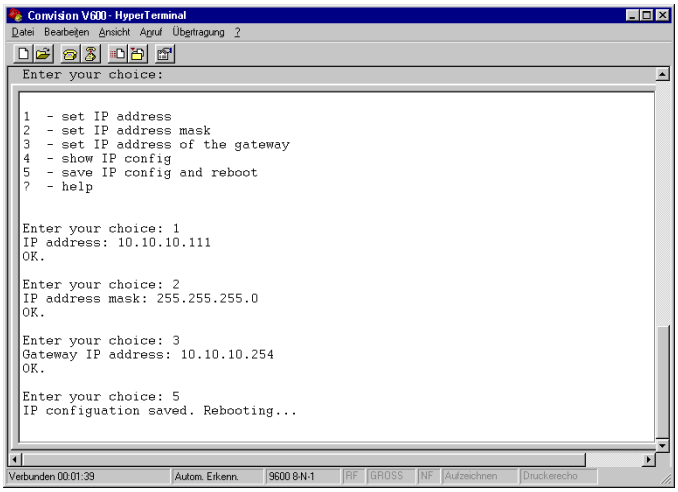



***Figure 12:***
***Main menu for initial configuration via Hyperterminal***

7. After pressing "3", you can enter the IP gateway address and confirm.
8. Press "4" to review the configuration settings. If they are correct, press enter.
9. Press "5" and then "Enter" to send the configuration data to your Convision V6xx A.
10. The Convision V6xx A will then automatically reboot and be ready for operation.

## 6.5 Deleting the Configuration

If you made a mistake in programming the IP address, network mask or gateway or if you have forgotten your password, you can no longer contact your Convision V6xx A. However, in this case, you can delete the configuration by resetting the unit. Once the Convision V6xx A has been reset, it will be in the initial state, i.e. neither the IP address nor the MSN have been saved yet.

To delete the configuration of the Convision V6xx follow the instructions below:

1. Briefly press the Reset button on the front of the Convision V6xx A.
2. Then immediately press the "M" button and release it only after the LEDs 1, 2 and 3 have lit up one after the other. If you also want to delete language modules, other modules and applets that you have already loaded, keep the "M" button pressed until the LEDs 1 to 6 have lit up.
3. Then release the "M" button.
4. The configuration has been deleted when the Online LED starts blinking in intervals of one second after the rebooting procedure. The initial configuration procedure then needs to be repeated.

***Caution! Do not press the "F" button at the same time as the "M" button since this will delete the entire software (firmware) of the Convision V6xx A!***

# 7 The HTML Pages – Operation and Configuration

After the first successful connection, enter the IP address of your Convision V6xx A in the address line of your browser.

## The Homepage

The homepage of the Convision V6xx A will be displayed. From this page, you can access all the viewing and configuration pages.

On the left-hand side you can see the navigation menus for opening the various pages. At the bottom of this section you will find all the available languages.

In the large window area to the right of the bar you can see the image of by the camera connected to the first camera input.

## Selecting the Language

The language selected upon delivery is either the default language set in the browser or English. If you want the menus to be displayed in a different language, you have to select this language at the bottom of the homepage.
In the Configuration / System / Language menu (refer to Chapter 9.1.3) you can change the default settings and load additional languages.

## Useful Notes on Navigation

In the left-hand bar of the browser window, you can see a field with the entry "Cameras". Click the arrow to the right of this field to display a list of various menu items. If you click on one of the menu items, another list with submenu items will be displayed.

- A small square to the left of a list item means that this entry is not subdivided further. Clicking on this list entry will display the associated page in the right-hand area.
- A triangle to the left of the list entry means that there are more submenu items that can be displayed by clicking with the mouse. Clicking on these items displays the associated pages.

For the "Configuration" menu, there is another drop down menu below the first one. This drop down menu contains the items of the individual configuration menus. To be able to use all the possibilities provided by the Convision V6xx A, you have to configure it first. For this purpose, please read Chapter 9 - Configuration.

# 8 Operation

## 8.1 Cameras

In this menu you can view the images from the connected cameras.

### Selecting the Viewing Mode

There are various modes for viewing the camera images. Select the viewing mode by clicking on it:

- JPEG – individual image
- Motion JPEG with Server Push (Netscape only)
  JPEG ActiveX (Internet Explorer only)
  JPEG Java (with the Java applet developed by Convision Technology)

A list of the cameras and multiple views is displayed.

☛ ***Note:*** *A signed Convision Technology ActiveX Plugin for displaying Motion JPEG streams in Internet Explorer is available (for more information refer to Appendix D - b -Setting up Microsoft Internet Explorer).*

### Selecting the Camera

Select one of the individual cameras, or "View of two cameras" (views of 2 cameras simultaneously), "View of four cameras" (views of 4 cameras simultaneously) or "View of six cameras" (views of 6 cameras simultaneously). On the right-hand side, the current image is displayed as 384x288(fullsize). The camera name is displayed inside the frame, provided you assigned a name under "Configuration / Cameras / Name".

This icon is displayed if one of the inputs is not connected to a camera.

If you have selected views of two, four or six cameras, you can select an individual camera by clicking the respective number button above the image. Cameras 1 and 2 or 1 to 4 are displayed by default.

### Selecting the Image Size

Select the image size by clicking one of the three image sizes displayed underneath the image:

- 192 x 144 (halfsize)
- 384 x 288 (fullsize); this is the default size
- 768 x 576 (hugesize)

When selecting views of multiple cameras, it is not possible to change the image size.

☛ **Note:** The loading time for a large image is longer than for a small image.

### Display

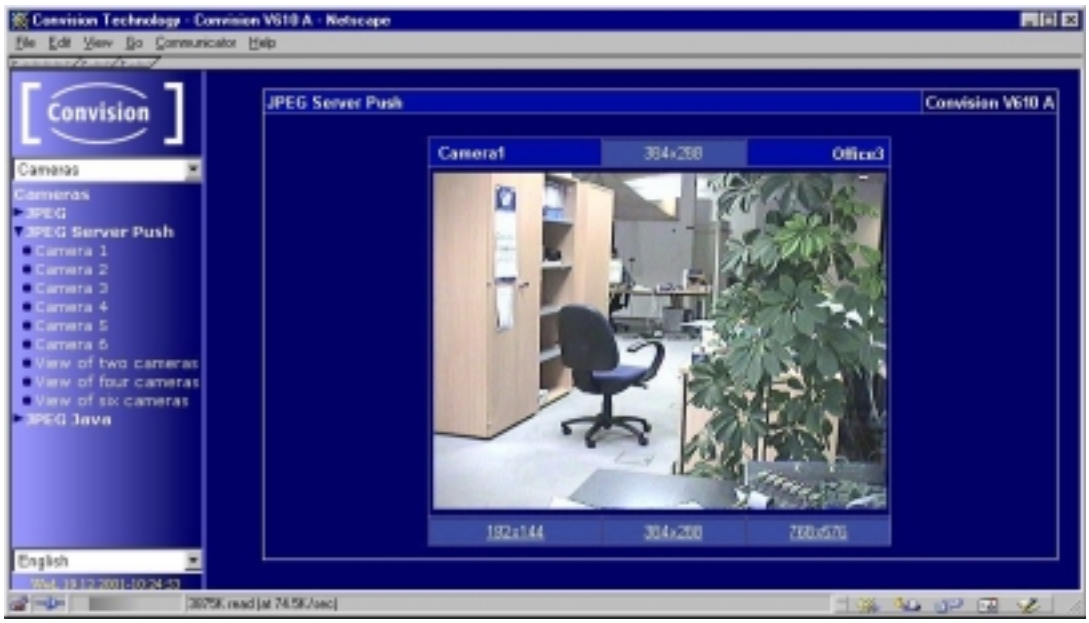



***Figure 13: Camera display***

When the images are displayed using the ActiveX plugin or the Java applet, you can access a pop-up menu (to display it, click the image using the right mouse button). This pop-up menu provides options for showing/hiding the date and time and for starting/stopping the image stream. When using the Java applet, you can also flip the image horizontally and vertically and show the FPS (frames per second) rate.

## 8.1.1 Controllable Camera

You can connect various controllable cameras to the Convision V6xx A, which can be operated directly via the user interface. Depending on their designs, these cameras have different functions. For this reason, the user interface of the Convision V6xx A varies, depending on the camera connected.

The user interface of a fully controllable camera is shown in Figure 14.

☛ ***Note****: The camera control is always displayed as a stream (Server Push, ActiveX, Applet) with a fullsize image recorded from a single camera.*

*In some controllable cameras you have to set an internal control address.. For this purpose, please use the addresses starting with "1".*

***Figure 14: View of a fully controllable camera***

1 Current camera image – Click a point in the image to focus the camera on the selected point.

2 Camera presets – storage spaces for selected image sections.
Click on the previously stored preset values to focus the camera on those sections.

3 Save button – opens a dialog box for storing the preset sections.

4 Horizontal pan range – infinitely variable panning
Stepwise panning left/right, depending on the zoom factor
Panning to left/right end position

5 Panoramic view of the entire pan/tilt area.

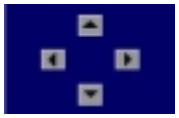
6 Clicking on "Refresh" reconstructs the panoramic view using updated frames.

7 Vertical pan range – infinitely variable panning
Stepwise panning up/down, depending on the zoom factor
Panning to the upper/lower end position

8 Zoom – infinitely variable zooming
Zoom in/zoom out stepwise
maximum zoom factor/minimum zoom factor

9 Travel to the home position of the camera.

Depending on the type of camera connected, some of the following controls will be displayed instead of the user interface shown in Figure 14: View of a fully controllable camera.



By clicking on the triangles the camera swivels in the direction of the arrow. The angle depends on the zoom factor.

Adjusting the zoom factor
Zoom in/Zoom out

Setting the image sharpness range for cameras without auto focus.
Close-up focus / remote focus

Adjustment of the light incidence in the lens.
Closed iris/open iris

☛ ***Note:*** *If the configuration protection function is activated, administrator rights are required for the storage process.*

### Saving Presets

1. For some controllable cameras you can save specific image sections as preset sections (Presets). For this purpose, focus on the desired point within the pan area of the camera.
2. Set the desired zoom factor.
3. Click the diskette icon. A dialog box for saving the current image section related to a position number is displayed.
4. Click the desired position and assign it a name.
5. Save the data. The dialog box is closed.
6. Now you can always focus on that point by clicking the respective position number. The names will be displayed as a tool tip whenever the mouse cursor is positioned on the number. The preset sections can also be addressed due to an event (refer to Chapter 9.3).

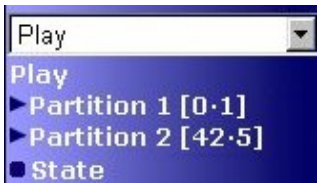
## 8.2 Playback (Convision V610 A/ 611 A only)

In the "Play" menu you can view the images saved on the available partitions.

### Requirements

- First of all, you have to create at least one partition on the hard disk (refer to Chapter 9.5.1).
- Start a recording (to start a recording manually, refer to Chapter 8.3, for a time-controlled or event-controlled start, refer to Chapter 9.3).
- After images have been stored on at least one partition, start the playback function.

## Description of the Numbers behind the Partitions




The numbers in square brackets behind the partition specify: [the number of recorded images per camera • the number of cameras recording on this partition]

In our example, the total number of images on partition 2 is 42 x 5 = 210

If a partition does not have any images, the icon shown on the left-hand side is displayed.

1. Select the desired partition.
2. Select the desired camera and the program to be used for displaying the images, i.e. either Server Push (Netscape), ActiveX (Internet Explorer) or the Java applet, refer to Chapter 10.2).

## Playing Back Long-Time Recordings

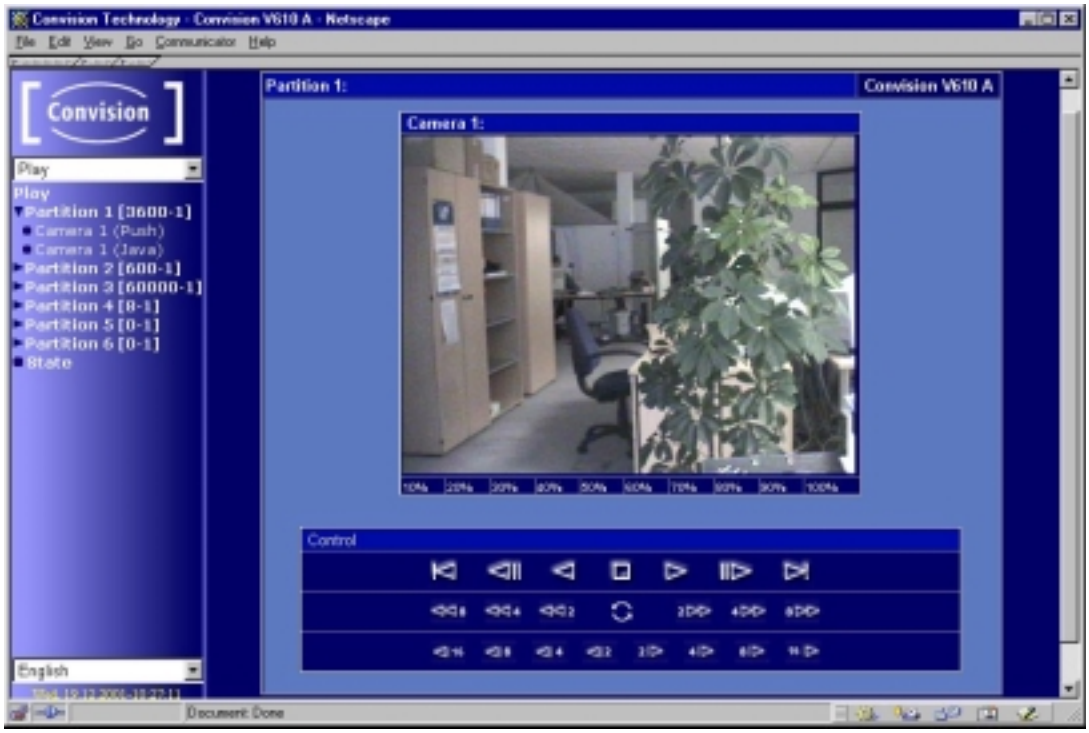



***Figure 15: Playback***

The images can be viewed in single steps or at different speeds forwards and backwards. For this purpose, use the control panel underneath the image.

Description of the controls:

1 2 3 4 5 6 7

1 – to the beginning
2 – single step backwards
3 – backwards at normal speed
4 – stop
5 – forwards at normal speed
6 – single step forwards
7 – to the end

1 2 3 4 5 6 7

1 – backwards at 8 x the speed
2 – backwards at 4 x the speed
3 – backwards at double speed
4 – continuous playback at normal speed
5 – forwards at double speed
6 – forwards at 4 x the speed
7 – forwards at 8 x the speed

1 2 3 4 5 6 7 8

1 – backwards at 1/16$^{th}$ of the speed
2 – backwards at 1/8$^{th}$ of the speed
3 – backwards at quarter of the speed
4 – backwards at half the speed
5 – forwards at half the speed
6 – forwards at quarter of the speed
7 – forwards at 1/8$^{th}$ of the speed
8 – forwards at 1/16$^{th}$ of the speed

Use the percentage specifications below the image for fast access to the desired image in the image sequence. 100 % refers to the last of the images recorded on this partition, irrespective of the partition size.

☛ ***Note:*** *The playback speed depends on the recording speed!*

### Playing Back Event Partitions

The control panel also contains a list of all the recorded events. These are numbered and identified by the date and time of the recording. Click an event to play back this event.

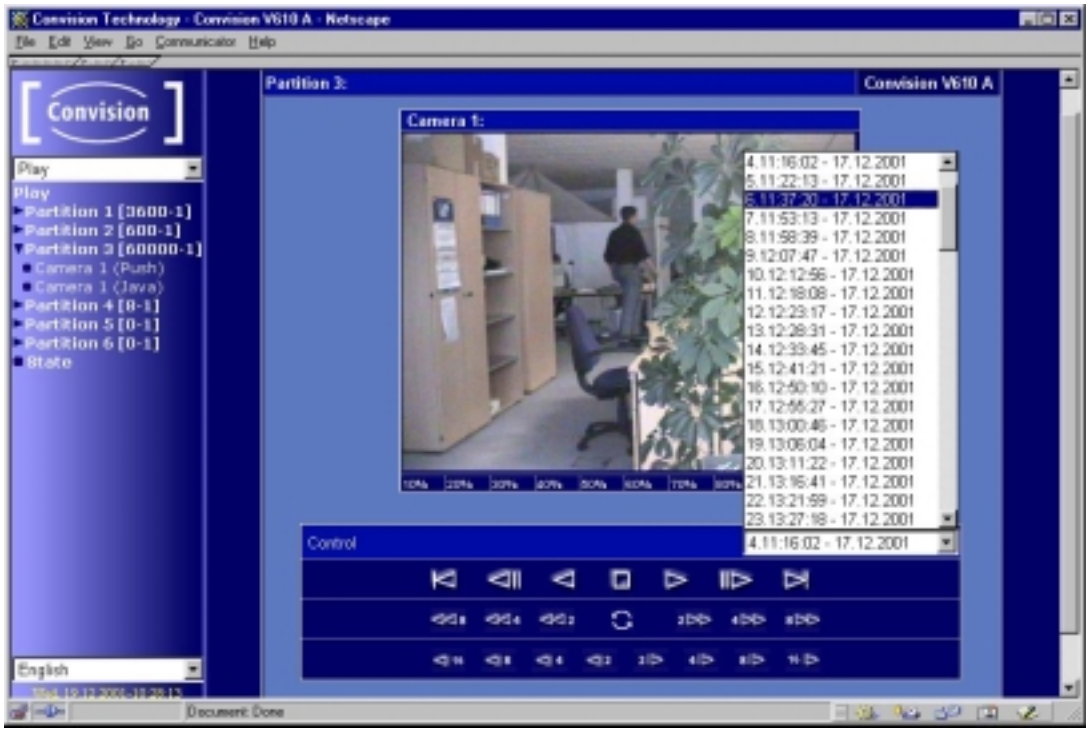



***Figure 16: List of Events***

## 8.3 Recording (Convision V610 A/ 611 A only)

Use the "Record" menu to manually start or stop long-time or ring buffer recordings.

### Requirements

- First of all, you have to create at least one long-time partition on the hard disk (refer to Chapter 9.5).

The table displays the created partitions along with the type of partition and the assigned cameras.

Click "Start recording" or "Stop recording" to start or stop the recording process on long-time recording partitions type or ring buffer partitions type .

On the other partitions (types and ) you can neither start recordings nor stop recordings in progress.

For information on time-controlled and event-controlled recordings, please refer to Chapter 9.3.

Convision Technology - Convision V610 A - Netscape
File Edit View Go Communicator Help
Convision
Record
Record
Partition 1
Partition 2
Partition 3
State
English
Recorder
Convision V610 A
Record
1. Start recording
Stop recording
2. Ring buffer: Start recording
Ring buffer: Stop recording
3. ---------
---------
Type of partition
Image type
Cameras
Max. number of images/ events
Already recorded images/ events
Continuous recording
Speed
1. 32 kB 1 90000 / - 90000 / - No 25 Images / 1 Second
2. 64 kB 1 30000 / 100 - / 0 No 5 Images / 1 Second
3. 64 kB 1 6000 / 100 - / 70 No 1 Image / 1 Second
Hard disk memory / MB 11497
Number of present partitions 3
Available memory for further partitions / MB 6434
Document: Done

***Figure 17: Menu for manual recording***

## 8.4 Frame Buffer Display

Frame Buffers are storage spaces in the main memory of the Convision V6xx A. In these buffers you can store as many as 32 pre and post event images per camera.

Each camera is assigned one frame buffer. This means, images recorded by camera 1 are exclusively stored in frame buffer 1 etc. Any one event can be stored in several frame buffers. Each frame buffer can store multiple events.

## Requirements

- Configure and activate the frame buffers by selecting the Configuration menu in the first drop down menu and Frame Buffer in the second drop down menu. Then select Frame Buffer in the menu displayed (refer to Chapter 9.4.2).
- An event that you assigned the recording in a frame buffer as an action has occurred.

If the above requirements have been met, the images stored in this buffer will be displayed.

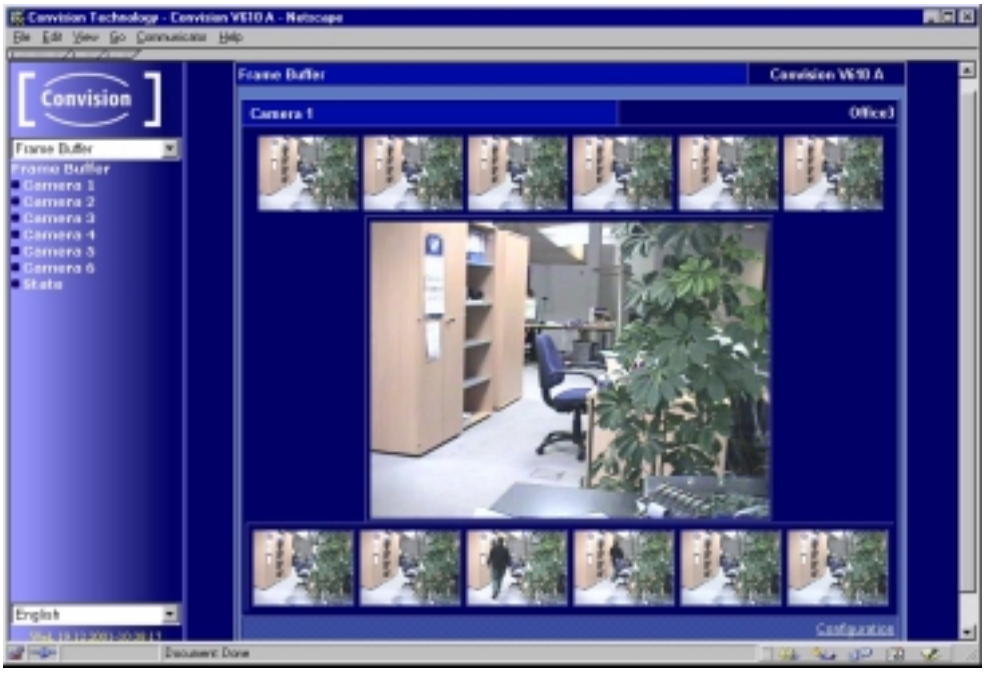



***Figure 18: Displaying the images in the frame buffer***

1. Select a camera (frame buffer).
2. The pre event images are displayed at the top, the first image is displayed enlarged in the center of the window and the post event images are displayed at the bottom.
3. Clicking on an image will enlarge it.

☛ ***Note:*** *The frame buffers are automatically restarted as soon as your images are sent by email or VdS 2465 message. The next pre event images will then be displayed. A frame buffer that was activated but not sent will not be restarted. In this case, all the pre event and post event images will be displayed.*

## State

This menu displays a status overview of the 6 frame buffers (red indicator = started, black indicator = stopped).

## 8.5 Applications

The Convision V6xx A supports various devices that can be controlled via the serial interface, such as weather stations or controllable sockets (not included in the scope of delivery).

### 8.5.1 Activating Outputs Manually

The two outputs of the Convision V6xx A, i.e. the relay switching output and the open collector output, are normally activated via an input alarm (refer to Chapter 9.3). The automatic switching duration is configured in the Actions / Outputs menu.

If you want to trigger an action manually (e.g. activate a door opener), you can activate the outputs via this menu.

- On — Switch is closed – device is activated
- Off — Switch is opened – device is deactivated
- Trigger switch will — Enter a time in the "Seconds" field and click "Trigger". The close for this time and then open again.

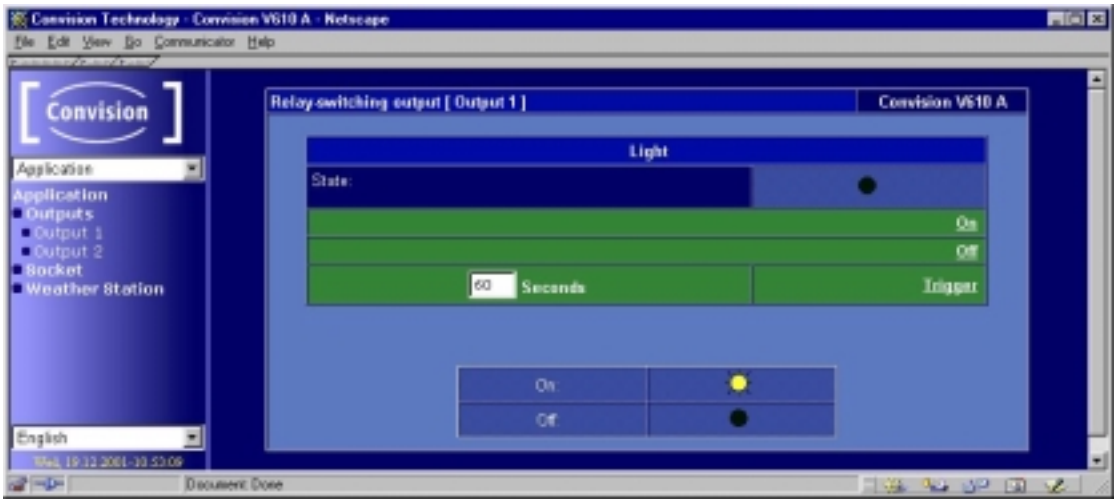



***Figure 19: Configuring the outputs***

*If an output activated via this switch is additionally triggered by an event, it will remain deactivated even after the set time period has elapsed.*

### 8.5.2 Sockets

Via this menu you can control each of the connected sockets supported by Convision Technology.

### 8.5.3 Weather Station

If a weather station supported by Convision Technology is connected to your Convision V6xx A, e.g. the Huger WM918, a list with all the data transferred, such as temperature, wind speed and wind direction will be displayed.

## 8.6 Applets

To extend the possibilities already provided by your Convision V6xx A, you can load your own applets with additional controllers for other devices. Depending on these applets, the associated HTML pages will be displayed.

You can upload the applets to the Convision V6xx A via "Configuration / System / Applet" (refer to Chapter 9.1.4).

## 8.7 Modules

Modules are software programs that perform various functions in the Convision V6xx A, thus enhancing the firmware. For modules that you can upload to the device if desired, please visit www.convision.de. Depending on the functions of the individual modules, module-specific HTML pages will be displayed. Some of the modules may also be an extension of existing HTML pages.

Each module is supplied together with a PDF document containing a description and operating instructions.

You can upload the modules to the Convision V6xx A via "Configuration / System / Module" (refer to Chapter 9.1.5).

## 8.8 Information

This menu displays the current firmware version of your Convision V6xx A and the creation date of this firmware. If a new software version is available for download at www.convision.de, you can update your Convision V6xx A (refer to Chapter 9.1.7).

Below the date is the serial number of your Convision V6xx A. Each unit has its own serial number. You can use it, for example, as a registration number when connecting to the Convision Call server (refer to Chapter 9.1.2 – Convision Call). The serial number is also printed on a label underneath your Convision V6xx A.

# 9 Configuration

*If the configuration protection function is activated, only the administrator is permitted to change the settings in this menu.*

## 9.1 System Settings

Use this menu for making general system settings. These include the connections, security settings, uploading various files, activating the FTP server and assigning the serial interfaces. In addition, this menu also provides the Event log. The event log records the configurations you made, system processes and errors that occurred.

### 9.1.1 LAN/Ethernet Connection Data

If you want to integrate your Convision V6xx A in a LAN using a permanent IP address, you can enter various IP addresses via this menu.

#### IP Addresses

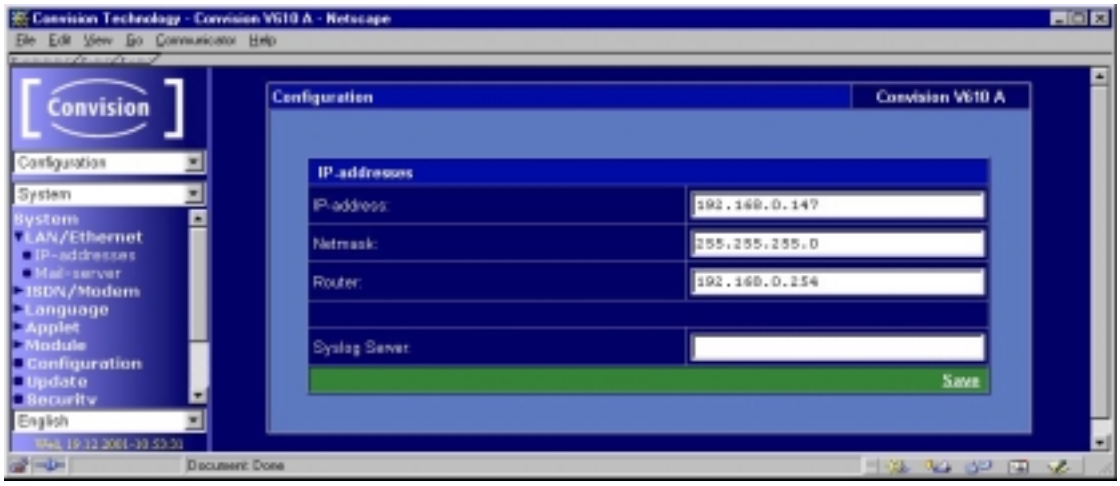



***Figure 20: Configuring the IP addresses***

During the initial configuration using IPSetup (refer to Chapter 6.2 or 6.3) or via the serial interface (refer to Chapter 6.4), you have already assigned an IP address and a network mask. This data is now displayed on this page. You can change this if desired. After a change you will be prompted to reboot the device. For this purpose, click the "Reboot" button.

☛ ***Note:*** *If your Convision V6xx A is connected via ISDN only, i.e. you assigned an MSN at initial configuration (refer to Chapter 6.1), these fields will be blank. You do not need to enter any data.*

If you do not know the individual IP addresses, ask your system administrator.

The IP address must be unique, i.e. it must not be assigned to another computer in the network. You can use the Ping command to check whether or not an IP address

is still available for the Convision V6xx A (refer to Appendix B). (For more information about IP addresses and network masks refer to Chapter 10.8)

**The Router Entry:**

If you are using a default router in your network to connect to the Internet, enter its IP address in the "Router" field. All the IP addresses outside the LAN will then be accessed via this router and not via ISDN.

*If messages are to be sent explicitly via ISDN, the "Router" field must remain empty.*

### The DNS-server entry:

In this field you have to enter the IP address of a DNS (Domain Name Service) server (a DNS server converts an alphanumeric address to an IP address). In this case, you should select the DNS server of the provider set in the Convision V6xx A. For information on this topic, please revert to your provider.

### Syslog Server

If you are operating a syslog server in your network, the Convision V6xx A can send messages/error messages to the IP address of this syslog server. If your network does not include a syslog server, this field should remain empty.

☛ ***Note**: It makes sense to specify a syslog server only if it can be accessed via the Ethernet.*

## Mail-server

The mail server must be specified if you are intending to send e-mails or SMS via the LAN connection to the Internet. If you want to send mail via an ISDN connection, you have to enter the respective data via the ISDN/Modem item.

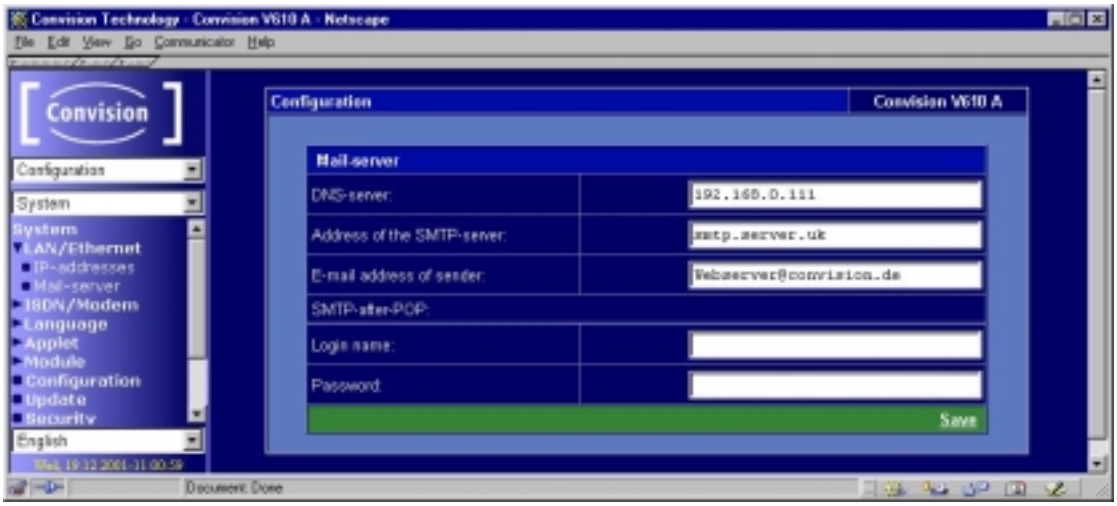



***Figure 21: Configuring the mail server***

1. Enter a DNS server (refer to Chapter 10.8 – The Domain Name Service).

2. Now enter the SMTP server (mail server) of the LAN or your provider.
3. Enter the address of the sending Convision V6xx A. This address must be registered with the provider.

If required by the provider, enter your login name and password for accessing the POP server (refer to Chapter 10.6).

## 9.1.2 ISDN/Modem Connection Data

If the Convision V6xx A is operated via an ISDN connection or a modem, enter the connection data via this menu item. The Convision V6xx A can be connected either via ISDN or via an analog modem. It is not possible to operate the two connections at the same time.

*The user can only establish a connection to the Convision V6xx A if both the user and the Convision V6xx A are using either analog connections or ISDN connections. Data transmission from an analog modem to ISDN is possible only over Convision Call.*

☛ ***Note:*** *Please check whether you need to enter additional zeroes for your telephone system.*

### General

#### Setting the IP Address

The IP address preset for devices accessed via ISDN connections is 10.0.0.10. If you want to access multiple devices via the same ISDN connection and a router, you can enter further addresses and network masks. After a change you will be prompted to reboot the device. For this purpose, click the "Reboot" button. (For more information on IP addresses and network masks refer to Chapter 10.8.)

#### Selecting ISDN or a Modem

Use one of these two buttons to specify whether your Convision V6xx A is connected via ISDN or a modem.

## ISDN Connection to the Convision V6xx A

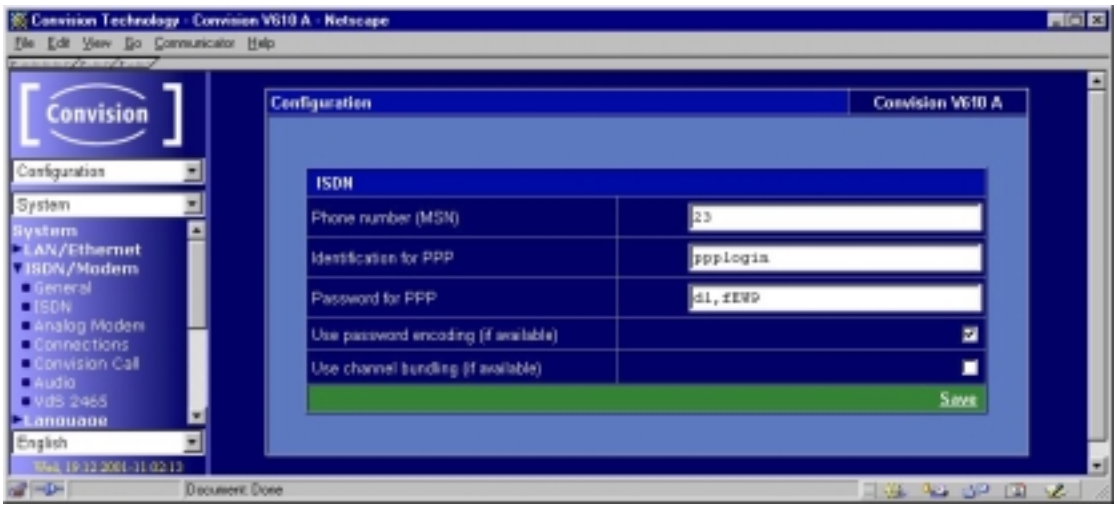



***Figure 22: Configuring the ISDN parameters***

1. In the "Phone number (MSN)" field, enter the multiple subscriber number (MSN)) for dialing the Convision V6xx A.

☛ ***Note**: Normally, when using a telephone system, you have to enter only the extension as the telephone number.*

2. Enter the login name in the "Identification for PPP" (point-to-point protocol) field.
3. Enter the password in the "Password for PPP" field.

☛ ***Note**: The data you enter in these fields must also be entered in dial-up networking when establishing an ISDN connection (refer to Appendix A).*

☛ ***Note**: The login name and the user password are advisable for security reasons if the Convision V6xx A is addressed directly via an ISDN connection because a connection can be established even if access to the device is protected by the user password (refer to Chapter 9.1.8).*

4. If supported by your provider, activate the password encoding option if desired (refer to Chapter 10.4).
5. If supported by your provider, activate the channel bundling option if desired (refer to Chapter 10.5).
6. Save the data.
7. You will be prompted to reboot the device. For this purpose, click the "Reboot" button.

*When setting up dial-up networking, you have to enable multi-channel connection setup (refer to Appendix A).*

## Connecting to Different Providers

The Convision V6xx A needs the connection data to be able to establish a connection via a provider, e.g. to send e-mail,
to perform an FTP upload or
to establish a connection to Convision Call.

*While connected to a provider, the Convision V6xx A cannot be accessed via the default router.*

By entering multiple providers, it is possible to establish alternative connections automatically, if the first attempt at establishing a connection fails. Apart from that, you can select different connections for different tasks.

1. Select one of the eight connection buttons on the "Connections" button bar.
2. Assign a name.
3. Enter the phone number of the provider.
4. Enter the login name in the "Identification for PPP" (point-to-point protocol) field.
5. Enter the password in the "Password for PPP" field.
6. If supported by your provider, activate the password encoding option if desired (refer to Chapter 10.4).
7. If supported by your provider, activate the channel bundling option if desired (refer to Chapter 10.5).

*When setting up dial-up networking, you have to enable multi-channel connection setup (refer to Appendix A).*

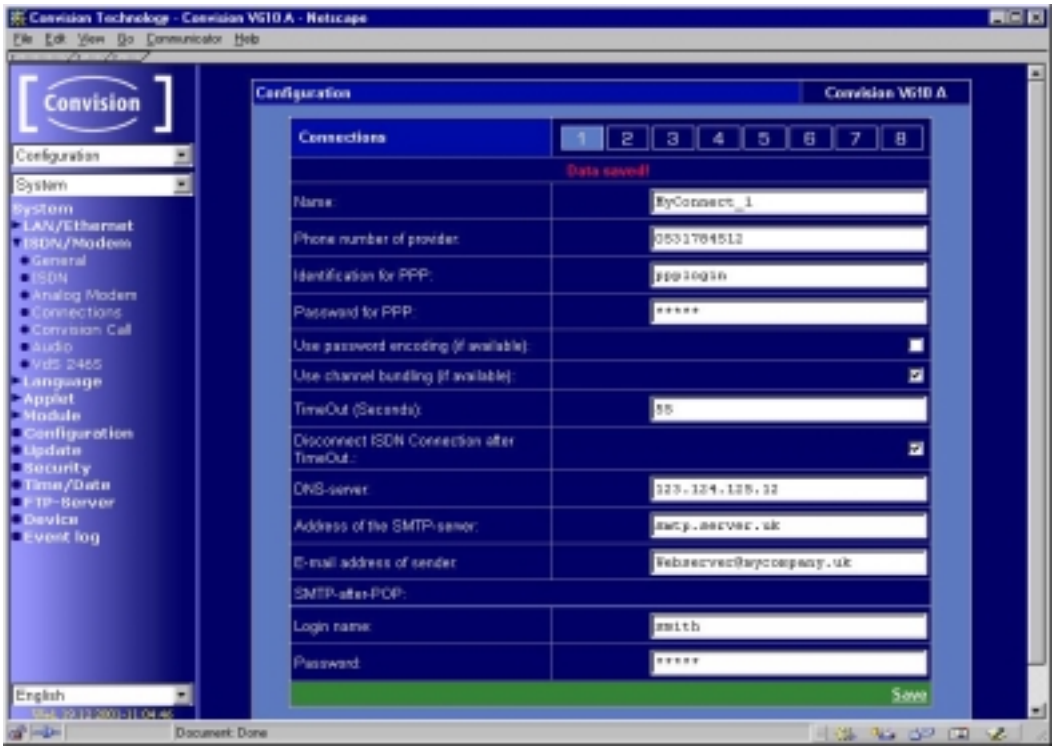



***Figure 23: Configuring connections***

8. TimeOut specifies the time period the Convision V6xx remains connected to the provider after the last data has been transferred. 55 seconds is the default time period. If desired, enter a different time in seconds (max. 99999 seconds).
9. Deactivate the checkbox if you want to terminate the connection immediately after the last data has been transferred or upon interruption of the data stream.
10. Enter the DNS server of the provider (refer to Chapter 10.8 – The Domain Name Service).

The following data needs to be entered only if you want to use this connection for sending e-mail or SMS!

11. Enter the SMTP server (mail server) of the LAN or your provider.
12. Enter the address of the sending Convision V6xx A. This address must be registered with the provider.
13. SMTP-after-POP: if required by the provider, enter your login name and password for accessing the POP server (refer to Chapter 10.6).

☛ ***Note**: If your provider does support channel bundling but it is not possible to bundle the two lines, the connection will be terminated with an error message in the status display (refer to Chapter 9.1.12).*

## Configuring the Modem

In the "Modem" menu you will find settings for a modem that supports the extended Hayes command set, e.g. US-Robotics Sportster.

The init strings for initializing the modem depend on the modem used. The init strings for your device can be found in the operating instructions of your modem.

1. If the values for your modem differ from the settings, please enter the correct strings.
2. Save the data and reboot your device.
3. If you made a mistake, click "Default" to restore the settings.

*After changes to this data, you have to reboot your Convision V6xx A.*

## Configuring the GSM Modem (Convision V611 A only)

You need a SIM card to be able to operate your Convision V611 A with integrated GSM (Global System for Mobile Communications) modem (Subscriber Identity Module). Your telecommunications network operator will provide you with the SIM card and the associated PIN. You must also ask your network operator for an additional data number for establishing a connection to the Convision V611 A.
Switch off the Convision V611 A (important!), then press the button on the right-hand side of the drawer on the rear of the device to insert the SIM card. Insert the SIM card and close the drawer.
Additionally you need an antenna, which is connected via a cable with FME

connector (female) to the FME adapter on the rear of the Convision V611 A (refer to Figure 3: Rear view of the Convision V611 A).

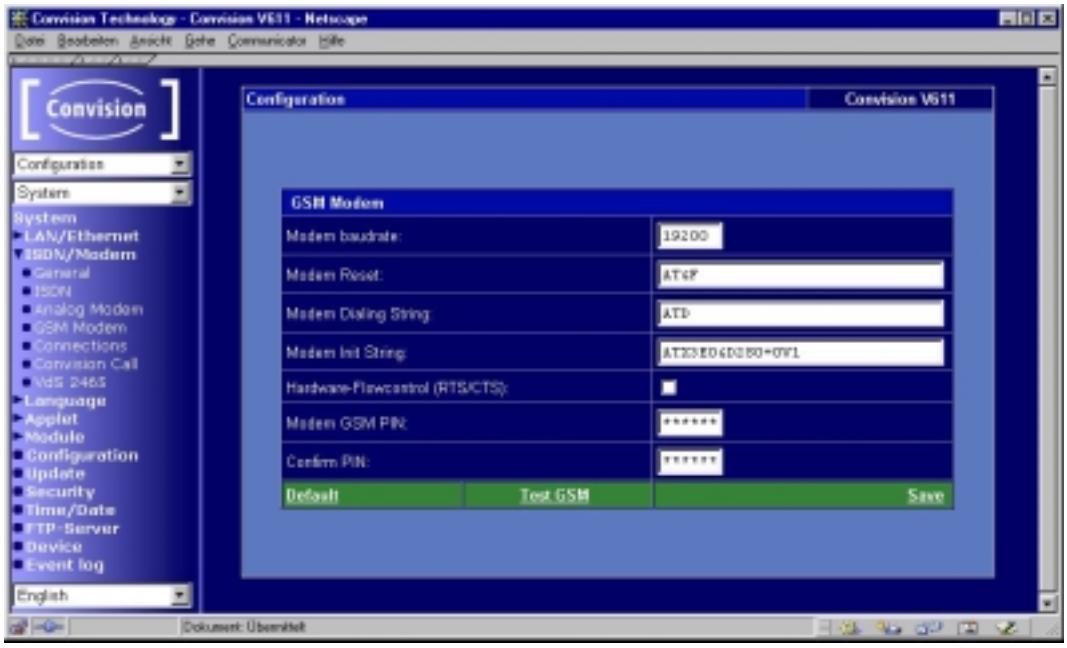



***Figure 24: Modem settings***

In the input form "ISDN", enter the data number (see above) of the SIM card as the telephone number (MSN).

The configuration of the GSM modem corresponds to that of the analog modem. In addition, you have to enter the PIN for your SIM card and confirm it by entering it a second time.

☛ ***Note:*** *Enter the PIN very carefully because the SIM card will be locked after three incorrect attempts.*

Reboot the Convision V6xx A, then run the GSM test to complete the procedure.

This test makes sure that access to the network is possible and it queries the modem version and the PIN. After restart, the event log will contain an entry as to whether the GSM modem has been registered properly.

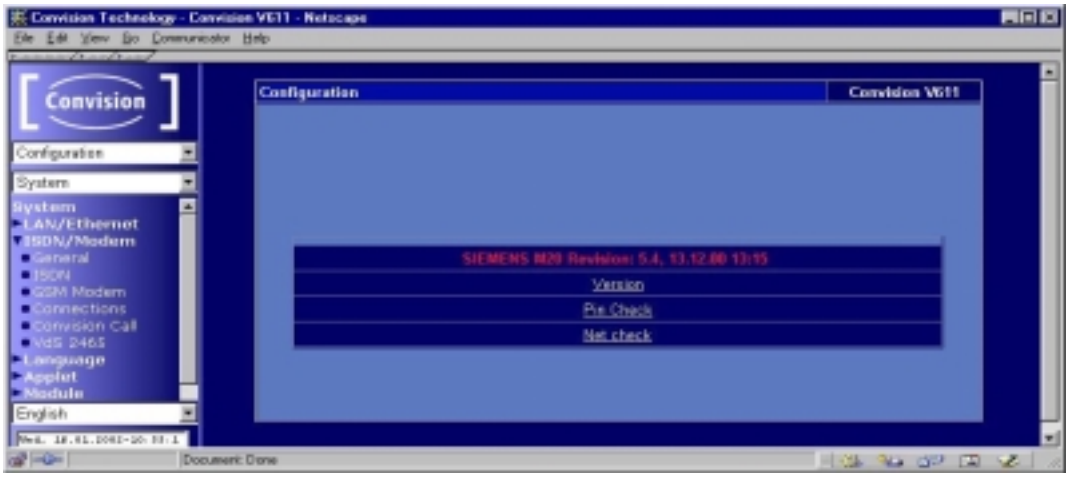



***Figure 25: GSM test***

## Audio/Voice Transmission via ISDN

Apart from data transmission, the Convision V6xx A can also be addressed via a telephone line. Audio data are transmitted via the B-channel of the ISDN. For this reason, you have to connect the Convision V6xx A to the ISDN. The image data are transmitted either via Ethernet or via the other B-channel. In this case, channel bundling is no longer possible.

Connect a door intercom system to the audio connector (female) on the rear of the device (refer to Figure 2: Rear view of the Convision V600 A/610 A or Figure 3: Rear view of the Convision V611 A).

1. For this purpose, remove approx. 10-13 mm of the insulation of the microphone and loudspeaker cables.
2. Using a small screwdriver, press against the clamping device above the receptacle and push the twisted cable into the receptacle.
3. After releasing the clamping device, it retains the cable. Check for tight seating by easily pulling on the cable.
4. Enter the MSN of the Convision V6xx A in the "Audio" field.
5. Specify up to 5 telephone numbers that are to be permitted to call the Convision V6xx. Enter the first number in the first field. When entering the telephone numbers, you can use "*" as a wildcard at the end of the number. This character can stand in for one or multiple end numbers.
6. Save the data.

You can now call the Convision V6xx A.

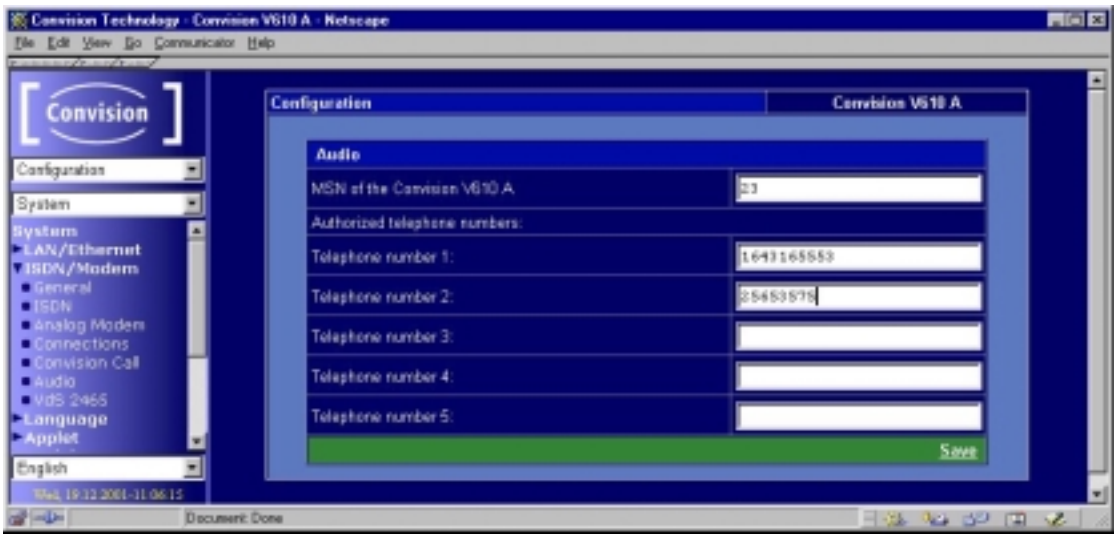



***Figure 26: Audio connections***

☛ **Note:** *The automatic number identification feature must be enabled at the telephone connection of the Convision V6xx A as well as at the connection of the calling party to ensure that the number is identified. For analog telephone connections, the CLIP function must be enabled.*

If you want to control an alarm circuit, you have to connect an alarm signaling device to one of the inputs.
When this alarm is triggered, the Convision V6xx A sends an e-mail or VdS alarm notification to a receiving station, e.g. an alarm center. The receiving station then manually or automatically establishes a voice connection to the door intercom system via the Convision V6xx A.

☛ ***Note:*** *The audio data are not transmitted synchronously to the image data.*

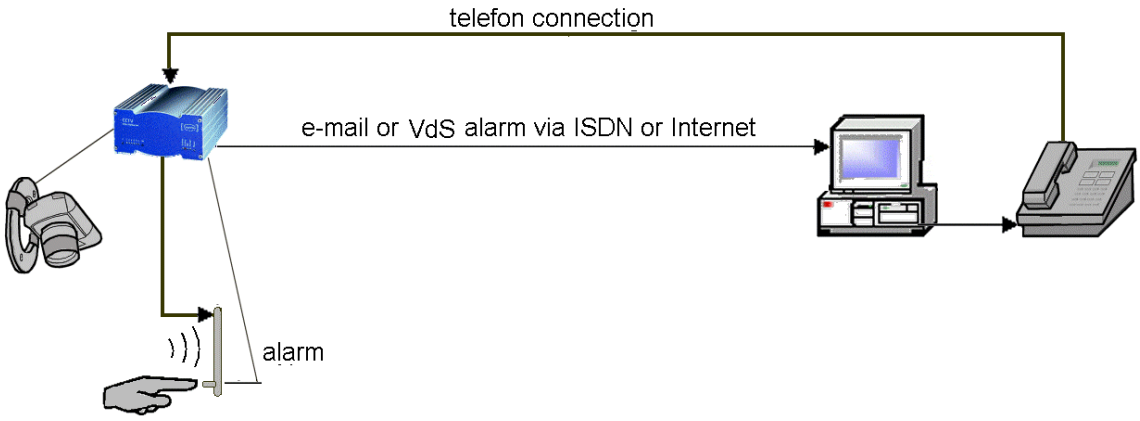



***Figure 27: Audio data transmission***

## Convision Call

Convision Call is a service offered by Convision Technology GmbH so that you can easily reach your Convision V6xx A connected via ISDN. Apart from that you save the costs of an ISDN long-distance call since the Convision V6xx A connects to the Convision Call server via your local Internet provider at an economical rate and with a dynamic IP address.

☛ ***Note:*** *The connection costs incur on the Convision V6xx A side because it sets up the connection.*

☛ ***Note:*** *Only the connection setup is made via the Convision Call server, not the data transfer.*

☛ ***Note:*** *When selecting a connection with channel bundling to the provider (refer to Chapter 9.1.2), only one access at a time can be made to the Convision V6xx A. For setting up another connection, there is no other free B-channel for signaling.*

To be able to use this service, you need register with the Convision Call server. This connection can also be set up if the user connects via an analog modem. However, the Convision V6xx A must be connected via ISDN.

1. Turn on Convision Call by clicking the "Activate" checkbox.
2. The IP address of the Convision Call server and the associated telephone number has already been entered. If the installation site of your Convision V6xx A is not in Germany, you have to enter the country code (0049).
3. To be able to use this service, you need to register with the Convision Call server.

For more information on Convision Call, please visit: http://www.convision.de/convision/_de/convisioncall/call.html. To register, you need the serial number of the Convision V6xx A and the connected ISDN telephone number of the Convision V6xx. The serial number is located on a sticker underneath the Convision V6xx A and on the HTML pages in the "Information" menu.

### Registration and Configuration Convision Call

1. Use a browser to open the Convision website www.convision.de, click the "Convision Call" button and select "Register to Convision Call – Server".
2. Fill in the registration form and save it. You are now registered with the Convision Call server and in future you need only enter your name and password to log in.

☛ ***Note:*** *Please check whether you need to enter additional zeroes for your telephone system.*

3. Click "To Convision Video Webserver". Enter your login name and password.
4. Click on the "Add" button; enter the data of your Convision V6xx A. Save your data. A window containing the data you just saved will be displayed.

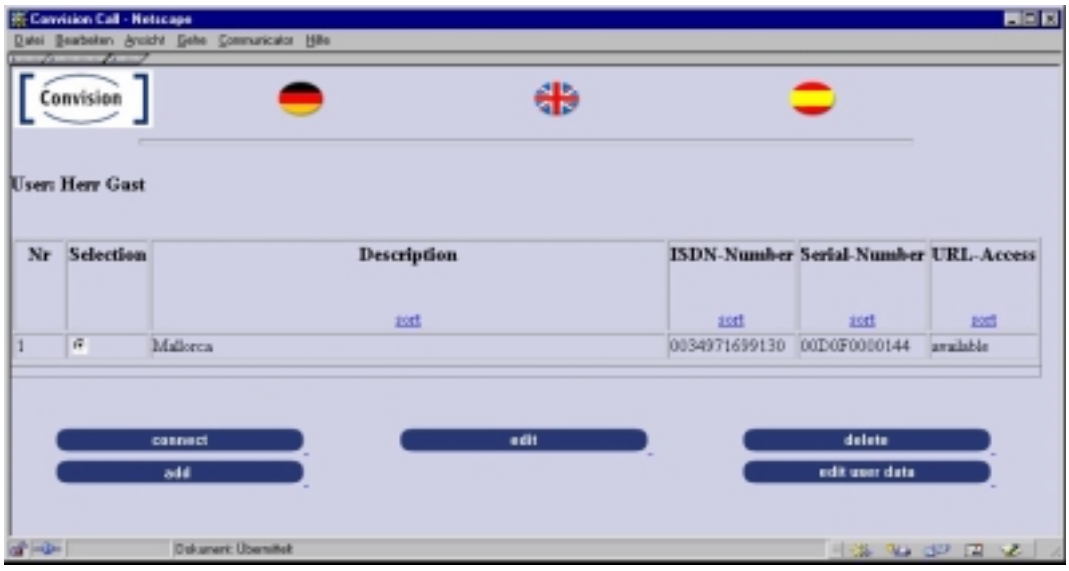



***Figure 28: Configuring the Convision Call server***

5. Open a second browser window and position the two browser windows in such a way that you can access both.
6. In the 2nd browser window, open the configuration page of your Convision V6xx A (Configuration / Connections / Convision Call) and click "Control". The Convision V6xx A will now wait for a call from the Convision Call server (for the set timeout) to learn the phone number of the server.

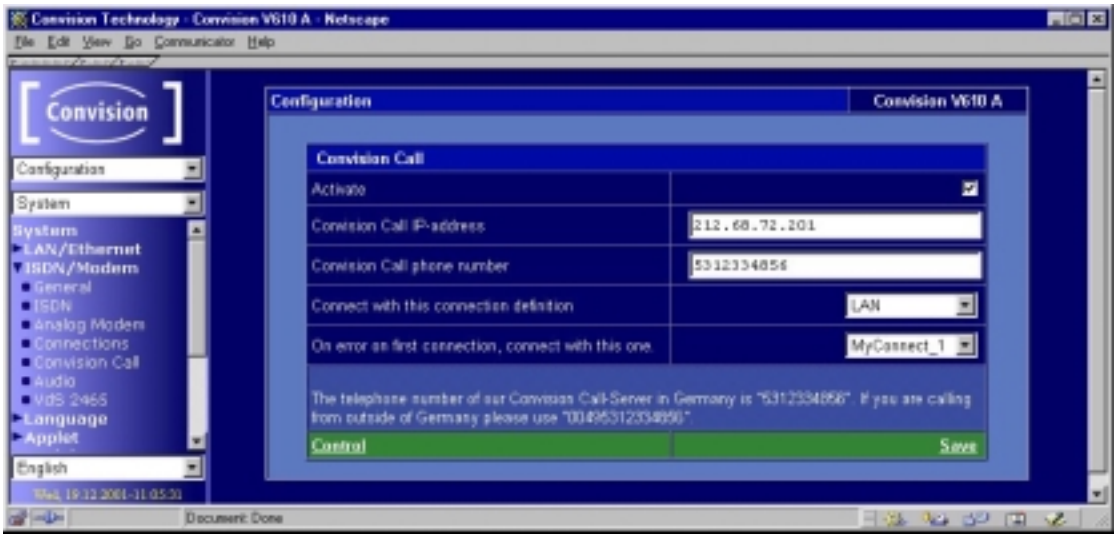



***Figure 29: Configuring Convision Call in the Convision V6xx A***

7. Immediately (within the set timeout, refer to Chapter 9.1.2 Connecting to Different Providers) select the "Connect" option in the first browser window. The server will now call your Convision V6xx A. The Convision notices that it is being called but does not answer the call. Instead, it updates (if applicable) the number of the Convision Call server and establishes a dial connection to the Internet via the Internet Provider.
8. Once the connection has been successfully established, the "Call received" message will be displayed.
9. If necessary, correct the data entered and save.

☛ ***Note:*** *If you call the Convision V6xx A via dial-up networking and there are not enough free telephone lines, disconnect dial-up networking to your Convision V6xx A immediately after the test call.*

### Using Convision Call

1. Use a browser to call the Convision website www.convision.de.
2. Click the "Convision Call" button.
3. Click "To Convision Video Webserver".
4. Log in to the Convision Call server using your name and password.
5. Select a Convision V6xx A in the window displayed (refer to Figure 28: Configuring the Convision Call server) and click "Connect".
6. You will be connected to your Convision V6xx A.
7. The connection will automatically be terminated when data are no longer being transferred. If a timeout is set, the connection will be terminated only after the timeout has elapsed (refer to Chapter 9.1.2 Connecting to different Providers).
8. Click "Connect again" if you want to re-establish the connection to the Convision V6xx A.

## VdS – Alarm Notification in Compliance with VdS 2465

Apart from TCP/IP, the Convision V6xx A can alternatively use a special alarm protocol (VdS 2465) to send alarm messages. These messages are sent via an ISDN connection to an alarm center. At the alarm center, a special software receives and decodes these messages so that measures can be taken immediately.

This submenu is used to define the parameters for connecting to the alarm center. The individual messages are defined in the "Action / VdS 2465" submenu (refer to Chapter 9.4.7).

1. Enter the telephone number of the alarm center that will answer your alarm message.
2. Enter the VdS identification. Your alarm center provides this ID to identify your Convision V6xx A.
3. Periodic reporting to the alarm center serves for verifying whether your Convision V6xx A is operational.

*VdS alarm notifications can only be sent to an alarm center with the facilities to process these messages.*

## 9.1.3 Language

### Selection

By default, the Convision V6xx A menus can be displayed in German or in English. Upon the first access to the Convision V6xx A user interface, the current browser setting is used.

Via this menu, you can select the language or you can continue using the default language of your browser.

For this purpose, activate the associated button.

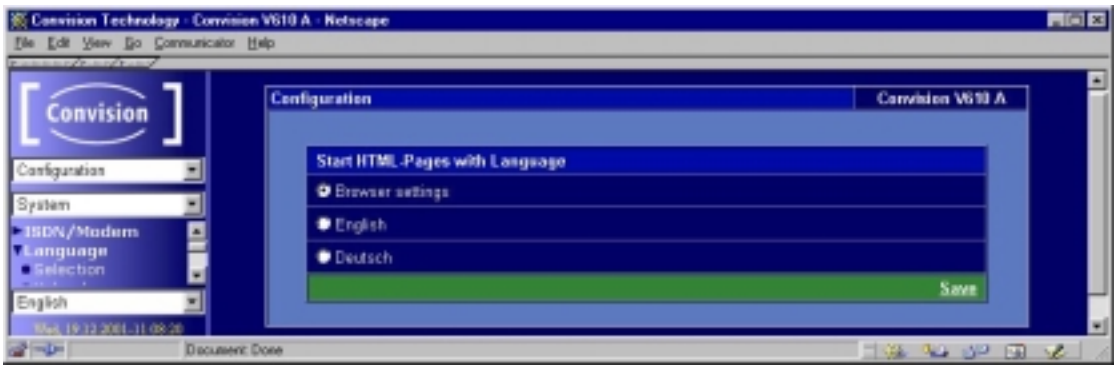



***Figure 30: Selecting the language***

### Upload

You can add a language version by uploading a file containing all the menu texts to the Convision V6xx A.

Modules with other languages are available on the Convision Website www.convision.de. Download the desired language module to your computer.

1. To upload the language module to the Convision V6xx A, enter the file name (extension .lgf) together with the complete path to the directory in which it is stored.
2. Alternatively you can click the "Browse" button to search for the file. Once you have located it, double-click to add it to the input line.
3. Then click the "Upload file" button.

*Do not switch off the Convision V6xx A during the upload procedure. Do not access the Convision V6xx A in any other way during the upload procedure.*

## 9.1.4 Applets

In this menu, you can load your own applets to the Convision V6xx A, e.g. for controlling other devices via the serial interface. In the "Applets" menu (refer to Chapter 8.6), you can display the associated HTML page. You can delete an applet that you do not need any longer.

You can download a sample applet that you can adapt to your needs free of charge on the Convision Website www.convision.de.

### Upload

1. To upload an applet to the Convision V6xx A, enter the file name (extension .jar) together with the complete path to the directory, in which it is stored.
2. Alternatively you can click the "Browse" button to search for the file. Once you have located it, double-click to add it to the input line.
3. Then click the "Upload file" button.

*Do not switch off the Convision V6xx A during the upload procedure.*
*Do not access the Convision V6xx A in any other way during the upload procedure.*

### Delete

When clicking the delete menu item, a list of all the applets you have already uploaded will be displayed. If you want to delete one of these applets, select it and then click the "Delete" button.

For an HTML display of your applet, select the "Applets" menu (refer to Chapter 8.6).

## 9.1.5 Modules

Modules are software programs that can perform various functions in the Convision V6xx A, thus enhancing the firmware. For modules that you can upload to the device if desired, please visit www.convision.de.

Via the "Module" item in the "Configuration" menu, you can upload further modules to the V6xx A, activate modules or delete them.

The HTML page of a module is displayed either via the "Module" menu (refer to Chapter 8.7) or as an extension to an existing HTML page.

### Upload

1. To upload a module to the Convision V6xx A, enter the file name (extension .mod) together with the complete path to the directory in which it is stored.
2. Alternatively you can click the "Browse" button to search for the file. Once you have located it, double-click to add it to the input line.
3. Then click the "Upload file" button.

*Do not switch off the Convision V6xx A during the upload procedure. Do not access the Convision V6xx A in any other way during the upload procedure.*

**Delete**

When clicking the delete menu item, a list of all the modules you have already uploaded will be displayed. If you want to delete one of these modules, select it and then click the "Delete" button.

**Activate**

Via this menu item, you can activate or deactivate the uploaded modules. A deactivated module is not displayed on the HTML pages.

### 9.1.6 Configuration – Saving and Uploading

You can save all the configuration data of your Convision V6xx A in a binary encoded file (default "convision.cfg") on your computer.

To save the file, click "Save configuration to file". Select the desired directory in the dialog box displayed.

You can upload the saved file to other devices of the same type and thus easily transfer the settings you made. You can also use this file to define the basic configuration. If you made undesired changes, for example, you can easily restore the original configuration using this file.

After you transferred the configuration file to other devices, you must assign a new IP address/MSN.

*The device associated with the IP address set in the configuration file must not be reachable within the LAN when the file is transferred to another device. As soon as you have transferred the file, change the IP address if the two devices are to be reachable within the LAN at the same time. Switch on the other device only after you have made these changes.*

1. To upload the configuration file to the Convision V6xx A, enter the file name (extension .conf) together with the complete path to the directory, in which it is stored.
2. Alternatively you can click the "Browse" button to search for the file. Once you have located it, double-click to add it to the input line.
3. Then click the "Upload file" button.

*Do not switch off the Convision V6xx A during the upload procedure. Do not access the Convision V6xx A in any other way during the upload procedure.*

## 9.1.7 Update – Uploading New Firmware

Via this submenu you can upload new firmware versions to the Convision V6xx A.

The software is continuously updated and its performance improved. The latest version of the software is available for download free of charge as a ZIP file on the Convision website www.convision.de.

1. To update the software, enter the full path of the directory to which you unzipped the update file on your computer after downloading.
2. Alternatively you can click the "Browse" button to search for the file. Once you have located it, double-click to add it to the input line.
3. Then click the "Upload file" button.

*Do not switch off the Convision V6xx A during the update procedure.*
*Do not access the Convision V6xx A in any other way during the procedure.*

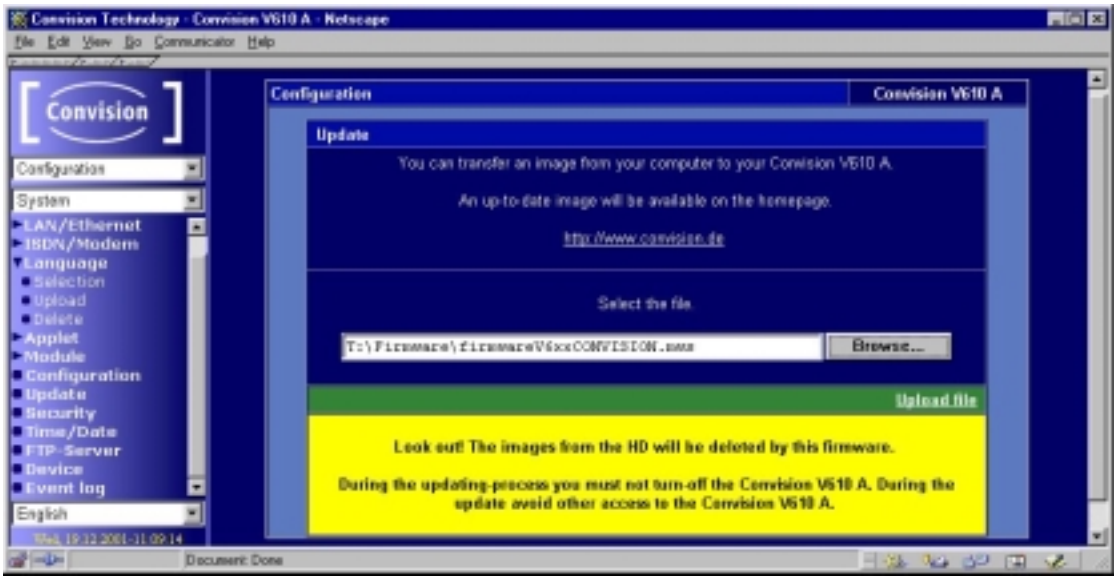



***Figure 31: Update dialog box***

☛ ***Note:*** *Following an update, controllable cameras may not be initialized correctly. In this case, switch off the camera and the Convision V6xx A, then switch on the camera first. Wait for the camera self-test to complete and then switch on the Convision V6xx A.*

## 9.1.8 Security Settings

In this submenu you can define security measures against unauthorized access to your Convision V6xx A. There are three levels for protecting the Convision V6xx A against unauthorized access.

Save your data once you have entered the passwords and activated the respective levels.

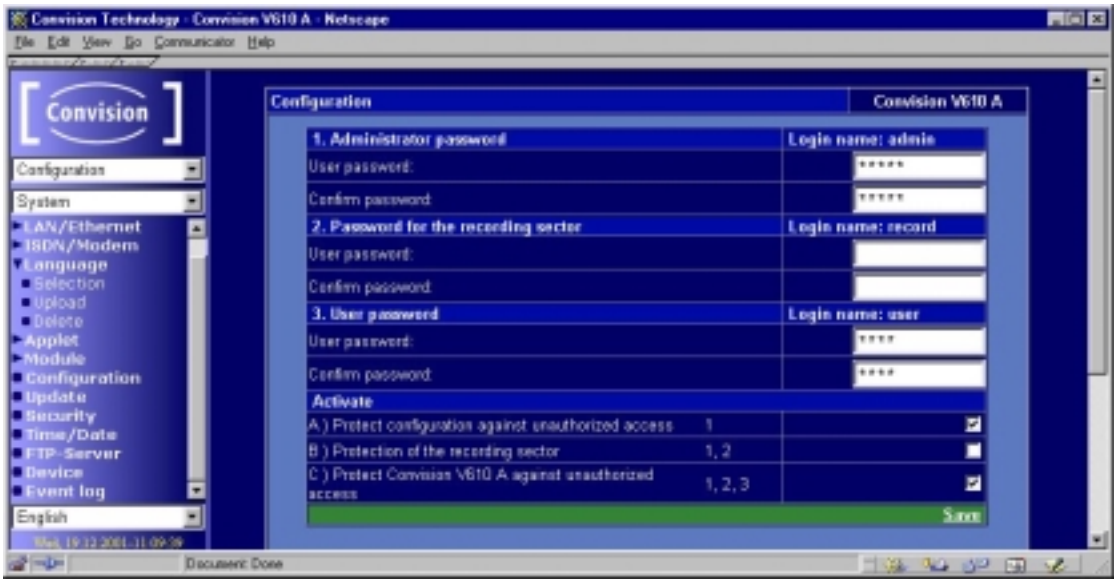



***Figure 32: The three security levels***

### Protecting the Configuration against Unauthorized Access

If you want to protect the configuration settings against unauthorized access, enter a password in the "Administrator password" area and confirm it. Then activate the "Protect configuration against unauthorized access" checkbox.

Now a prompt for entering the administrator password will be displayed as soon as the "Configuration" menu is selected. A user with the login name "admin" will always be granted access to all the areas of the device.

The login name for the administrator is “admin” and cannot be changed.

### Protecting the Recording Sector against Unauthorized Access

If you also wish to protect the recording sector, i.e. the access to the frame buffer or the hard disk, enter a password in the "Password for recording sector" area and confirm it. Then activate the "Protection of the recording sector" checkbox.

Now a prompt for entering the password for the recording sector will be displayed as soon as the "Record" menu is selected. A user with the login name "record" always has access to all the areas. An exception is the "Configuration" menu, provided it has been password-protected.
The login name for the recording sector is “record” and cannot be changed.

### Protecting the Device against Any Unauthorized Access

You also have the possibility of protecting the Convision V6xx A against unauthorized access in general. For this purpose, enter a password in the "User password" area and confirm it. Then activate the "Protect Convision V6xx A against unauthorized access" checkbox.

Now a prompt to enter the user password will be displayed upon any access to the Convision V6xx A. A user with the login name “user” cannot access the "Configuration", "Frame Buffer" and "Hard disk" menus, provided these have been password-protected.

The login name for the user section is “user” and cannot be changed.

## 9.1.9 Setting the Time and Date

The date and time are set upon delivery of the Convision V6xx A. If these settings are not correct due to different time zones, you can change them via this menu item. Save the data.

These two settings are constantly updated even without an external power supply via a backup battery.

## 9.1.10 Activating the FTP Server

Use this menu to activate the Convision V6xx A as an FTP server. When this option is activated, the camera images can be downloaded using either HTTP (Hypertext Transfer Protocol) or FTP (File Transfer Protocol).

*After changes to these data, you have to reboot your Convision V6xx A.*

### Permitting Anonymous FTP Access

If the Convision V6xx A is protected in that the various security levels have been activated (refer to Chapter 9.1.8), it will not be possible to access it via FTP without entering a login name and password.

You then have to use the following URL to access the Convision V6xx A:

```
ftp://login_name:password@IP-address/....
```

The login name is either "admin" or "user" and the password is the one assigned in the security settings. Once the page has been opened, the password is no longer displayed in the address line.

If "Anonymous FTP allowed" has been activated, users are able to access the images on the Convision V6xx A with the login name "anonymous" or "ftp" and any password via an FTP program.

☛ ***Note:*** *If the FTP protocol is opened using a browser, it is not necessary to enter the user data. The login name "anonymous" is the default setting for this access.*

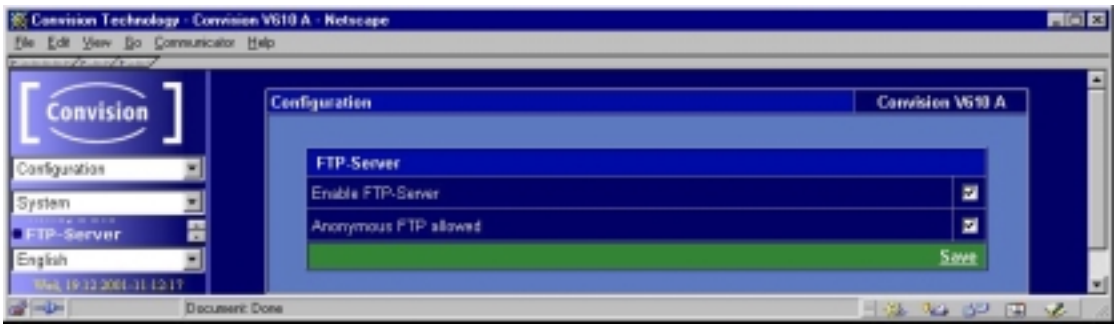



***Figure 33: FTP-Server dialog box***

## Downloading Images via FTP Using a Browser

If you have activated the FTP server, you can also download the images from the Convision V6xx A via FTP using your browser (in this case, the FTP client). To this end, you need only specify the desired image using an FTP command. To access an image stored on the hard disk, enter the following address in the browser:

```
ftp://IP-address/HD/partition1/camera1/good/123456.jpg
```

The path is composed of:

- IP address of the Convision V6xx A,
- specification "HD" for the hard disk area
- specification of the partition (partition1 –- partition8)
- specification of a camera (camera1 – camera6)
- image quality (good, medium, low)
- desired image. The names of the images are composed of a 6-digit serial number and the extension ".jpg", e.g.: "001234.jpg"

The number depends on the number of recorded images in this directory.

An up-to-date image can be obtained using the following path:

```
ftp://IP-address/camera2/fullsize.jpg
```

This command addresses camera 2. For other image sizes, you can enter "halfsize" or "hugesize" instead of "fullsize".)

☛ ***Note:*** *At "ftp://IP-address/HD/info.txt" you can download an overview of the hard disk partitioning and the available images.*

## 9.1.11 Assignment of Devices to the Serial Ports

In the "Device" menu you have to enter the devices connected to the two serial interfaces (COM 1 and COM 2) of your Convision V6xx A.

1. In the table displayed, select which device is connected to COM 1 and COM 2. If no devices are connected, select "No device connected!" (default).
2. If several controllable cameras are connected, specify the number of cameras.
3. As a rule, a modem is connected to COM2. For all the other devices (controllable cameras, weather station, controllable sockets) you are free to choose the port.
4. If you want to operate a device not listed in the table, select "Serial Url Port". You will control the device with your own applet that you have to upload to the Convision V6xx A (refer to Chapter 8.6 and 9.1.4).
5. Save the data.
6. You will be prompted to reboot the device. For this purpose, click the "Reboot" button.

*You cannot connect two models of one device type (e.g. cameras) to the two COM ports.*

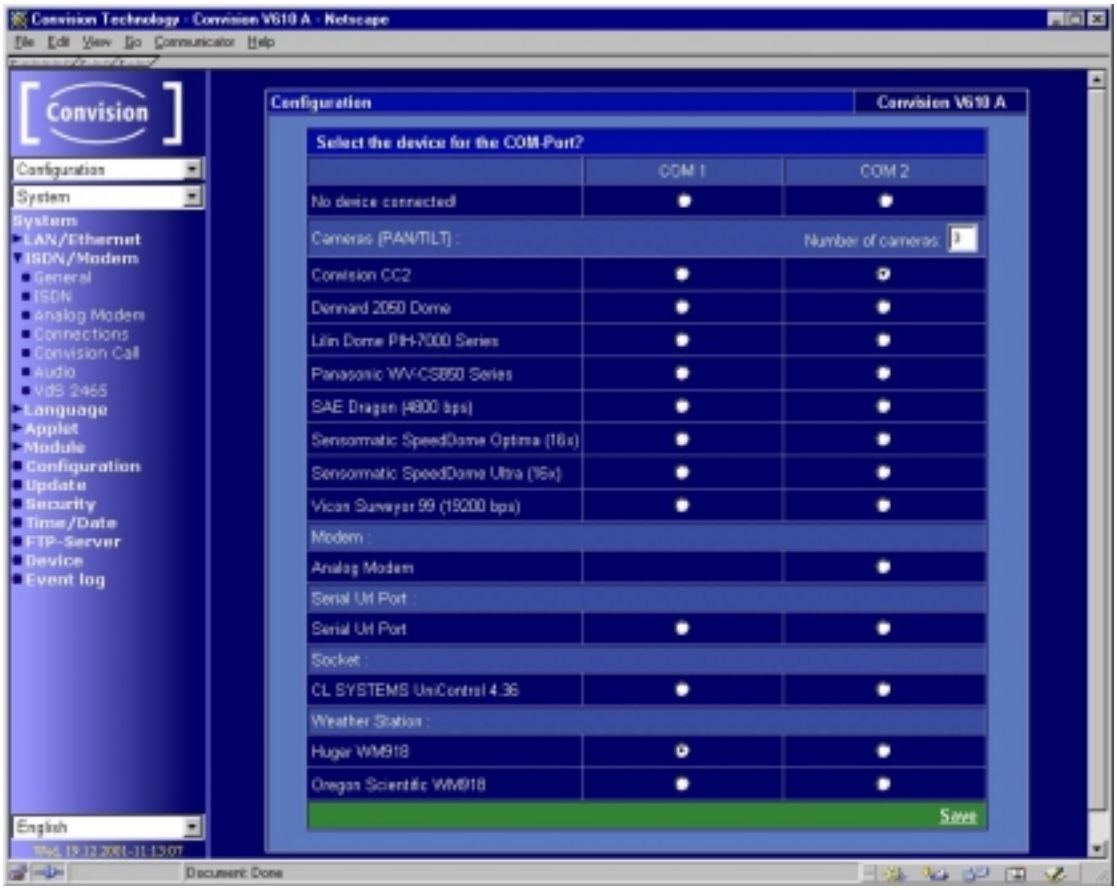



***Figure 34: Assignments of the serial ports***

## Serial URL Port

Once the serial URL port has been activated, it is possible to control devices not supported by the Convision V6xx A, e.g. other controllable cameras. In this case, all the parameters required for setting the serial connection and the actual data will be transferred.

The data that need to be entered for controlling the device can be obtained from the device manufacturer.

When programming a website or an applet, you can integrate links or buttons that include CGI parameters in addition to the IP address of the Convision V6xx A in the URL. These parameters are forwarded to the device to be controlled via the serial URL port. You can download a manual for programming the Convision Webserver and a sample applet at www.convision.de.

# 9.1.12 Event Log

The Convision V6xx A logs all the system events (information, errors and warnings).
Click on the "Event log" menu item to list all these events.
Click on "Delete events" if you want to delete the list.

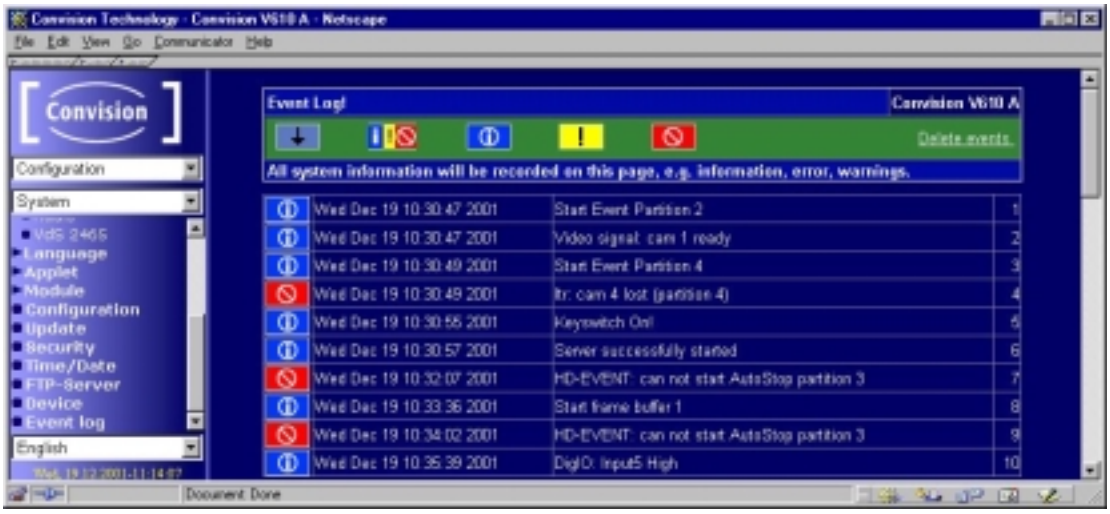

Convision
Configuration
System
Language
Applet
Module
Configuration
Update
Security
Time/Date
FTP-Server
Device
Event log
English
Event Log!
Delete events
All system information will be recorded on this page, e.g. information, error, warnings.
Wed Dec 19 10:30:47 2001 Start Event Partition 2
Wed Dec 19 10:30:47 2001 Video signal cam 1 ready
Wed Dec 19 10:30:49 2001 Start Event Partition 4
Wed Dec 19 10:30:49 2001 Itr: cam 4 lost (partition 4)
Wed Dec 19 10:30:55 2001 Keyswitch On!
Wed Dec 19 10:30:57 2001 Server successfully started
Wed Dec 19 10:32:07 2001 HD-EVENT: can not start AutoStop partition 3
Wed Dec 19 10:33:36 2001 Start frame buffer 1
Wed Dec 19 10:34:02 2001 HD-EVENT: can not start AutoStop partition 3
Wed Dec 19 10:35:39 2001 DigIO: Input5 High
Document Done

***Figure 35: Event log***

You can change or filter the display by clicking on one of the buttons above the list:

Change the order of the entries

All the entries visible and refresh the display

Filter: only events visible

Filter: only warnings visible

Filter: only errors visible

## 9.2 Camera Settings

In the "Configuration/Cameras" menu you can rename the connected cameras, i.e. assign them individual names (e.g. depending on the position of the camera). In addition, you can set the camera properties.

### 9.2.1 General – Settings for the Image Display

- Activate the checkbox if the camera images are to be saved in the "hard disk cache" of the browser (not in Internet Explorer).
- Activated: The individual image displayed in the browser window can be saved.
- not activated: When saving an image, an up-to-date image from the camera is used instead of the one displayed in the browser.
- Activate this checkbox to enable the display of date/time in the Java applet.

☛ ***Note:*** *The Java applet also has a pop-up menu (click the right mouse button on the image) via which the date can be shown/hidden.*

### 9.2.2 Name – Renaming Cameras

In this menu you can assign each camera a name. It is a good idea to use the name of the location at which the respective camera is mounted. After entering the names, click the "Save" button to save the names you assigned in the Convision V6xx A. The names assigned to the cameras will then be displayed in the camera views.

### 9.2.3 Pan/Tilt

This menu is displayed only if a controllable camera is connected.

In the associated dialog box you have to enter the maximum time in seconds granted to a user for controlling a camera. During this time period, any other access to this camera will be rejected. If a "0" is entered in this field, every access is permitted, i.e. if several users access a camera simultaneously, one user can change the position desired by another user.

### 9.2.4 Setting the Camera Properties

1. Select a camera.

This icon is displayed if one of the inputs is not connected to a camera.

2. Select the property you want to change, i.e. either "Saturation", "Brightness", "Contrast", "Quality" or "Hue" (for NTSC cameras only).
3. Adjust the settings according to your requirements.

- Possibility 1: the 6 number buttons above the image represent the various saturation levels. Click on one of the number buttons to select this level. If you are satisfied with the setting, click the "Save" button.

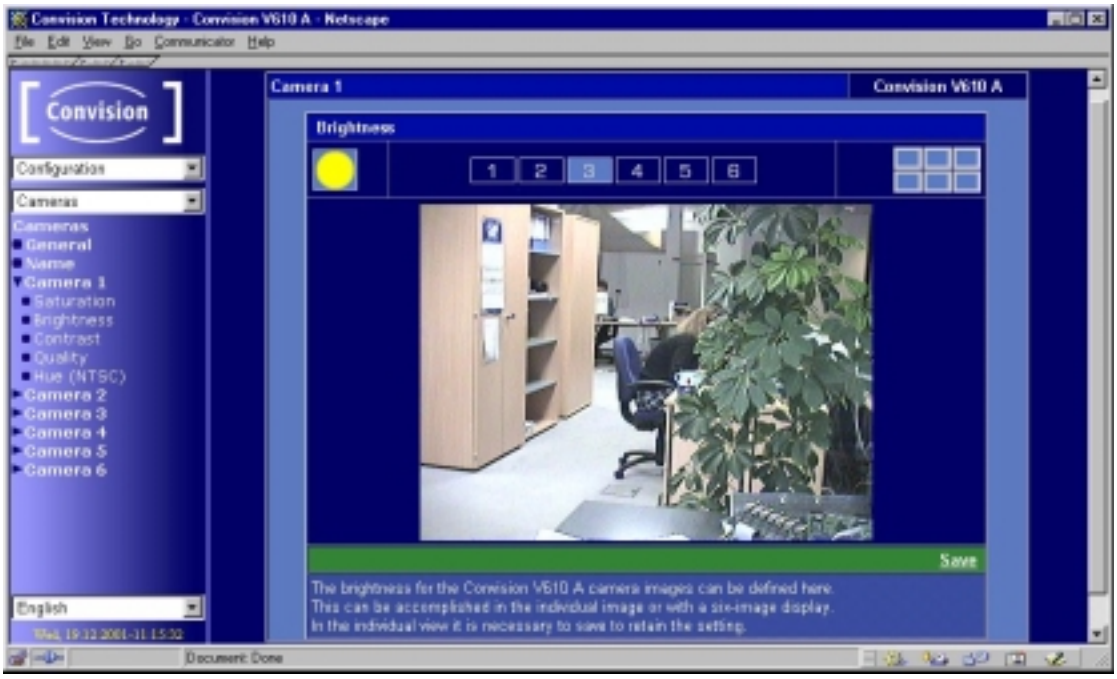



***Figure 36: Setting the camera properties 1***

- Possibility 2: if you click on the rectangle made up of six small rectangles in the upper right-hand corner, images representing all the six levels will be displayed. You can select the desired level by clicking on the corresponding image.

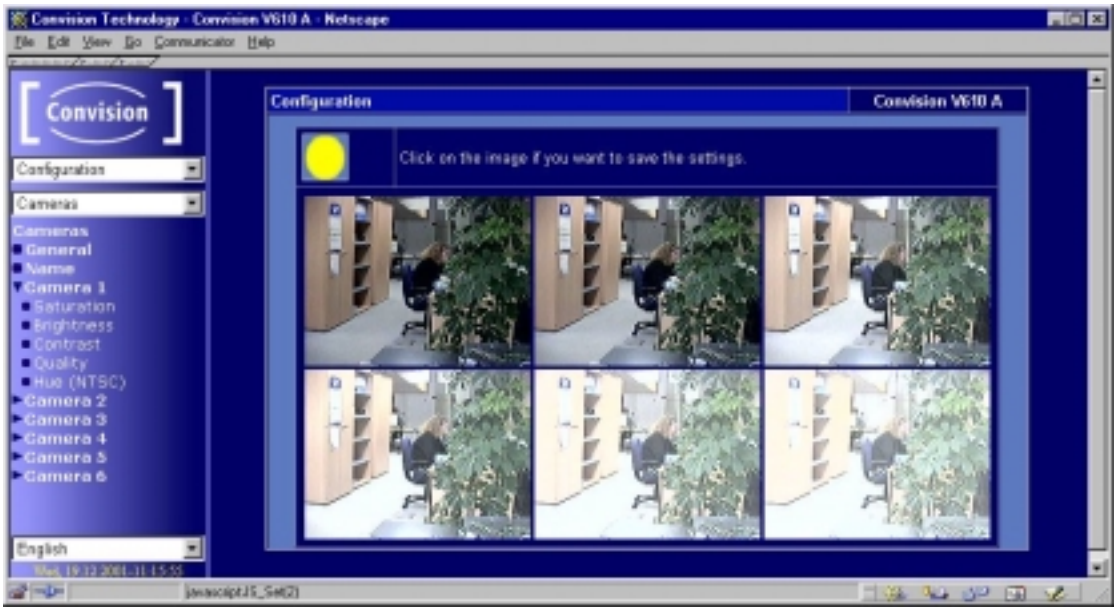



***Figure 37: Setting the camera properties 2***

☛ ***Note:*** *If your Convision V6xx A is connected via ISDN it is advisable to reduce the quality and thus the data volume of the images to achieve a smooth image stream.*

☛ ***Note:*** *The hue (for NTSC cameras only) defines the color hue of the image and is set to 128 by default. If the image does not exhibit a natural hue with this setting, you can adapt it by slightly changing the default value.*

## 9.3 Events – Actions When an Alarm Is Triggered

An event occurs either when an input is activated (time-dependent by timers you configured) or when a camera detects and reports an activity.

The Events menu items are used to configure timers and activity detectors. You then assign actions to the events that are to be triggered as a response. The following actions may be possible:

- CameraPresets (at least one controllable camera must be connected)
  Activate the preset positions that are to be taken. These positions will be taken directly one after the other in the order listed.
- Hard disk (Convision V610/V611 only) activate the checkboxes of the partitions you want to record to.
- Frame Buffer Activate the checkboxes of the frame buffers that are to be filled but not sent. If you want to append frame buffers to an e-mail or VdS notification, you must **not** enter them here.
- Output (Time) – Activate the checkboxes of the outputs that are to be switched for the time period set.
- Output (Start/Stop) – Activate the checkboxes of the outputs that are to be switched during the alarm.
- FTP Activate the checkboxes of the FTP uploads that are to be performed.
- eMail Activate the checkboxes of the e-mails that are to be sent.
- SMS Activate the checkboxes of the SMS that are to be sent.
- VdS2465 Activate the checkboxes of the VdS 2465 notifications that are to be sent.

### 9.3.1 Inputs

You can connect various signaling devices to the inputs of the Convision Video Webserver. Use this menu item to assign each input (Input 1 to Input 6) the actions that are to be performed when a message is received.

1. Enter the name of the input.
2. Click "Add" to select actions to be performed when this input receives a message.
3. A page will be displayed on which you can assign the event actions from various groups.
4. You can assign any number of actions. All the actions will be listed in the table in the line associated with the respective input.

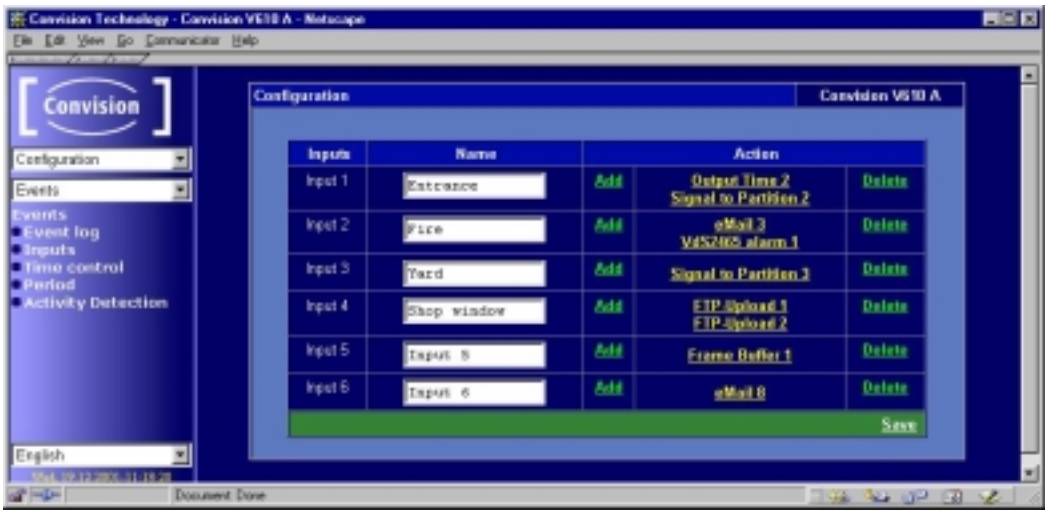



***Figure 38: Configuring the alarm inputs***

5. Repeat steps 1 to 4 for other inputs, if desired.
6. Click "Delete" to cancel the assignment of actions.
7. Save the data.

☛ ***Note:*** *All the actions you want to trigger must first be configured. Clicking on the actions opens the associated configuration pages. Check the status on these pages to avoid assigning partitions that do not exist or messages that have not been written.*

## 9.3.2 Time Control – Time-Dependent Actions

In this menu you can configure up to eight different points in time (timers 1 – 8) at which the Convision V6xx A is to perform actions. Points in time trigger periodical actions (e.g. every 10 minutes) within defined time periods (e.g. daily between 8 a.m. and 4 p.m.).

***Figure 39: Configuring the points in time – assigning actions***

1. Select a timer and enter a name for it.
2. Click on a timer (timers 1 to 8) in the first table column. A page with a weekly schedule is displayed.

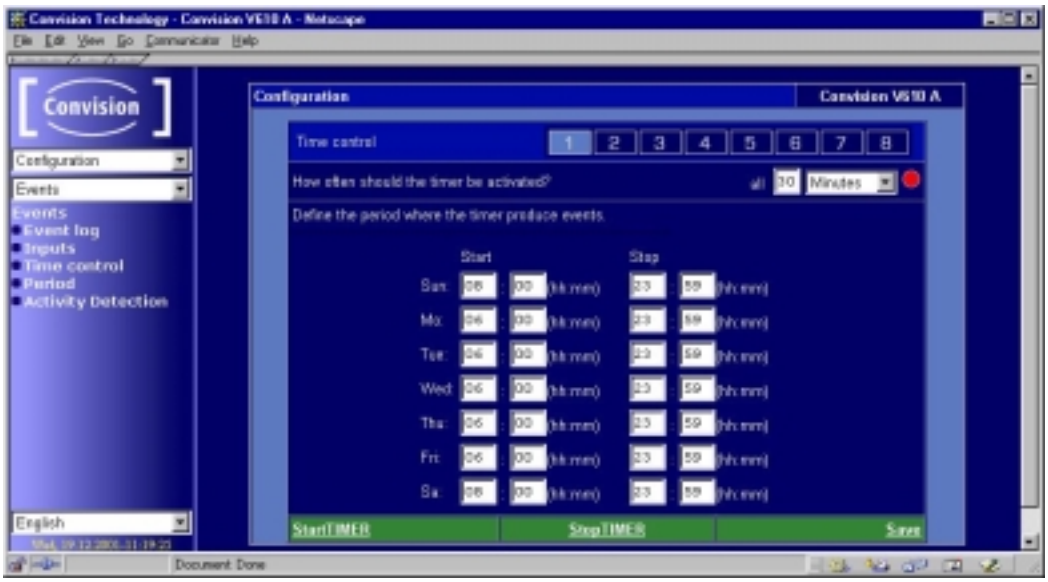



***Figure 40: Configuring the points in time – weekly schedule***

3. Define how often this timer is to be activated, e.g. how often an e-mail is to be sent or an output is to be switched. You can select "Seconds", "Minutes" or "Hours".
4. Now define a time period for each day of the week on which this timer is to be active. Enter a start and a stop time for the respective days of the week.
5. Save the data.
6. Start the timer. The black indicator next to the list box in the upper right-hand corner will change its color to red.

*Saving the page again after starting the timer will stop it.*

7. Return to the page, on which you can select the timers.
8. Click "Add" to select actions that are to be performed at the selected points in time.
9. A page will be displayed on which you can assign the event actions from various groups.
10. You can assign any number of actions. All the actions assigned will be listed in the table in the line associated with the respective timer.
11. Repeat steps 1 to 10 for other timers, if desired.
12. Save the data.
13. Click "Delete" to cancel the assignment of actions.

☛ ***Note:*** *All the actions you want to trigger must first be configured. Clicking on the actions opens the associated configuration pages. Check the status on these pages to avoid assigning partitions that do not exist or messages that have not been written.*

## 9.3.3 Period

In this menu you can configure up to eight different periods (periods 1 to 8) in which the Convision V6xx A is to perform actions. Periods define time spans (e.g. daily between 8 a.m. and 4 p.m.) in which recordings are to be stored or outputs are to be switched.

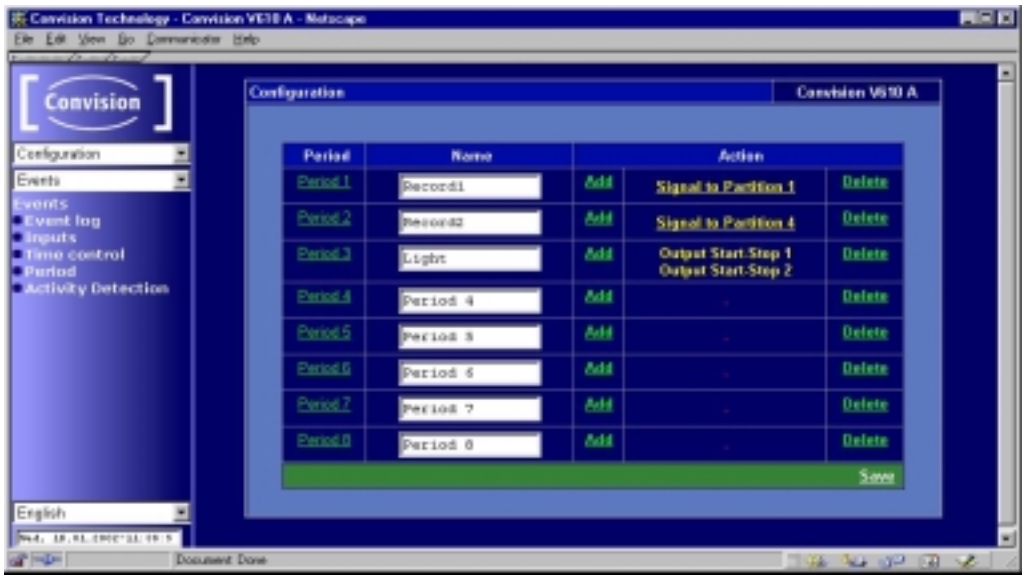



***Figure 41: Configuring the periods – assigning actions***

1. Select a period and enter a name for it.
2. Click on a period (Periods 1 to 8) in the first table column. A page with a weekly schedule is displayed.

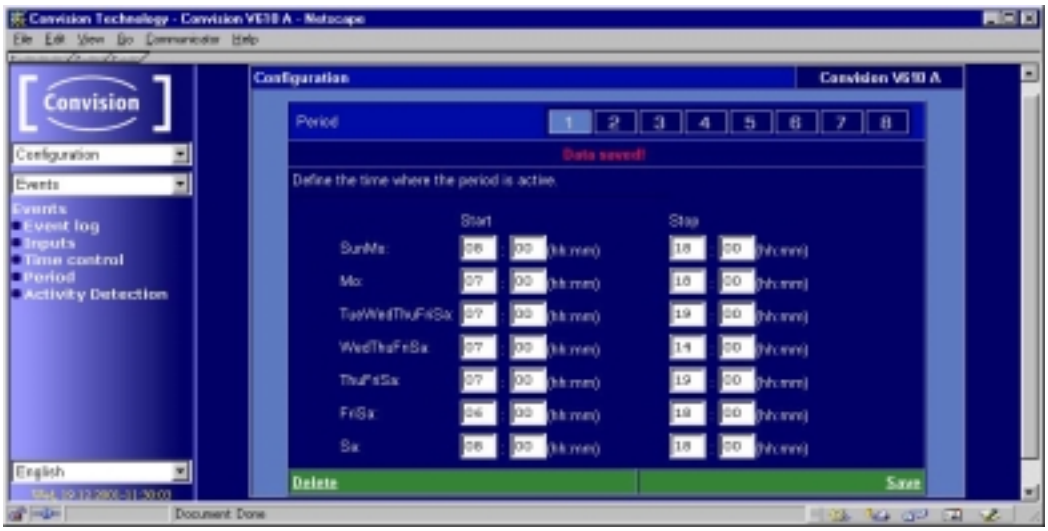



***Figure 42: Configuring the periods – weekly schedule***

3. Now define a time period for each day of the week on which this period is to be active. Enter a start and a stop time for the respective days of the week.
4. Save the data.
5. Return to the page, on which you can select the periods.

6. Click "Add" to select actions that are to be performed in the selected periods.
7. A page will be displayed on which you can assign the event actions from various groups.
8. You can assign any number of actions. All the actions assigned will be listed in the table in the line associated with the respective period.
9. Repeat steps 1 to 8 for other periods, if desired.
10. Save the data.
11. Click "Delete" to cancel the assignment of actions.

☛ ***Note:*** *All the actions you want to trigger must first be configured. Clicking on the actions opens the associated configuration pages. Check the status on these pages to avoid assigning partitions that do not exist or messages that have not been written.*

## 9.3.4 Activity Detection

Camera 1 can act as an activity detector. Via this menu you can assign actions to the cameras to be performed when an activity message is received.

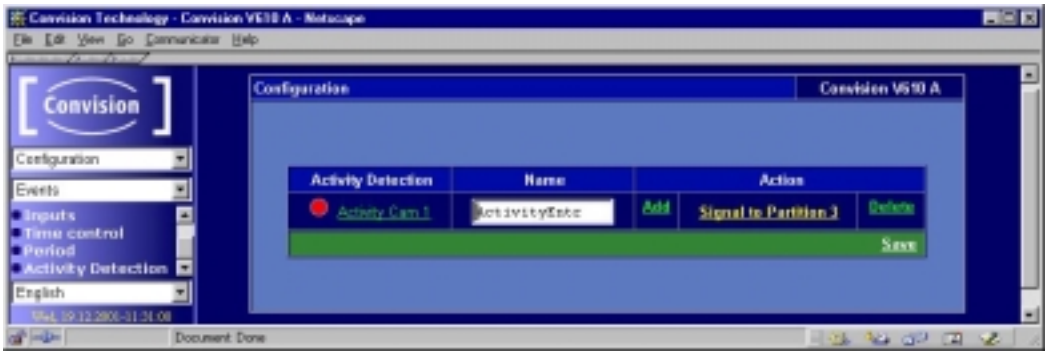



***Figure 43: Configuring the activity detection***

1. Enter a name.
2. Click "Activity Cam 1" in the first table column to display the next configuration page.

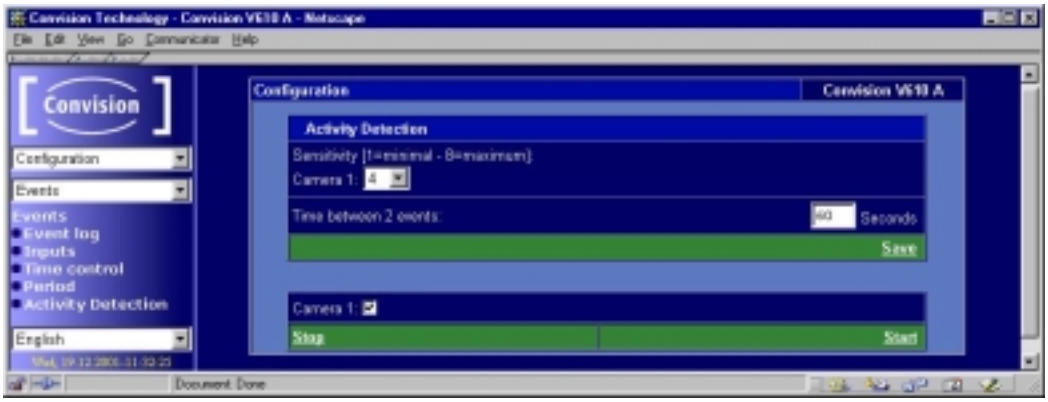



***Figure 44: Activity Detection – properties***

3. Define the sensitivity of the camera. This is the sensitivity of the camera to movement. You can select 8 sensitivity levels from 1 = minimum sensitivity to 8 = maximum sensitivity (see below).
4. The system detects every movement in front of the camera as an event. This might lead to an excessive number of actions. For this reason, set the minimum time that must elapse between two event messages in the "Time between 2 events" field.
5. Save the data.
6. Start the activity detection.
7. Return to the page for selecting cameras for activity detection.
8. Click "Add" to select actions to be performed when activity was reported.
9. A page will be displayed on which you can assign the activity detection camera actions from various groups.
10. You can assign any number of actions. All the actions assigned will be listed in the table in the line associated with the respective activity detection camera.
11. Save the data.
12. Click "Delete" to cancel the assignment of actions.

**Setting the Sensitivity**

Activities are shown in the following display modes:

- JPEG ActiveX (Internet Explorer only)
- JPEG Java

While activity is being detected, the camera image is shown in a red frame.

1. Set the minimum sensitivity for the selected camera. Save the data.
2. View the camera image in one of the display modes mentioned above. Decide whether the sensitivity – represented by the red frame – is sufficient.
3. If required, set a value that corresponds to a higher sensitivity. Save the data.

## 9.4 Actions

The Convision V6xx A performs actions in response to events (at an input or time-controlled – refer to Chapter 9.3).

### 9.4.1 Hard Disk – Configuring the Hard Disk

You can configure the hard disk either via this menu item or via the Configuration / Hard disk menu . For a description, refer to Chapter 9.5.

## 9.4.2 Configuring the Frame Buffers

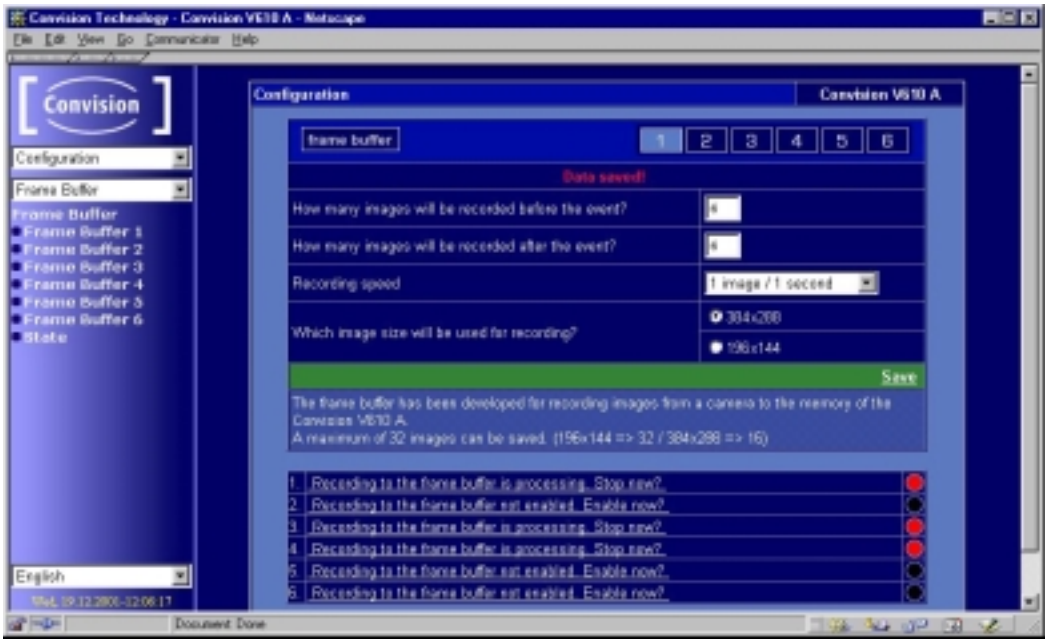

Convision Technology - Convision V610 A - Netscape
File Edit View Go Communicator Help
Convision
Configuration
Frame Buffer
Frame Buffer 1
Frame Buffer 2
Frame Buffer 3
Frame Buffer 4
Frame Buffer 5
Frame Buffer 6
State
English
Configuration
Convision V610 A
frame buffer
1 2 3 4 5 6
Data saved!
How many images will be recorded before the event?
How many images will be recorded after the event?
Recording speed
1 image / 1 second
Which image size will be used for recording?
384x288
196x144
Save
The frame buffer has been developed for recording images from a camera to the memory of the Convision V610 A.
A maximum of 32 images can be saved. (196x144 => 32 / 384x288 => 16)
1 Recording to the frame buffer is processing. Stop now?
2 Recording to the frame buffer not enabled. Enable now?
3 Recording to the frame buffer is processing. Stop now?
4 Recording to the frame buffer is processing. Stop now?
5 Recording to the frame buffer not enabled. Enable now?
6 Recording to the frame buffer not enabled. Enable now?
Document Done

***Figure 45: Configuring the frame buffers***

Frame Buffers are storage spaces in the main memory of the Convision V6xx A. In these buffers you can store as many as 32 pre and post event images per camera. Each camera is assigned one frame buffer. Thus, the images from camera 1 are recorded in frame buffer 1 etc.

Once a frame buffer has been activated, it continuously stores frames. As soon as a buffer is filled, it is overwritten. If an event occurs (refer to Chapter 9.3), the preset number of post event images are stored, then the recording procedure is aborted. Thus, the remaining storage space contains the pre event images.

Each event may be stored in several frame buffers. Each frame buffer can store several events. You can attach several frame buffers of your choice to any e-mail or VdS notification.

For information on displaying frame buffers, please refer to Chapter 8.4.

1. Click on "Configuration" and select a frame buffer in the top button bar of the page displayed.
2. Specify the number of images that are to be recorded before an event.
3. Specify the number of images that are to be recorded following an event. The maximum permissible total number of pre and post-event images is 16 or 32.

*If the total number you entered exceeds 16 (384x288 pixels) or 32 (196x144 pixels), the number is automatically corrected to 16 or 32.*

4. Specify the recording speed between the maximum speed (25 images per second) and 1 image every 2 seconds.
5. Select the image size. The maximum number of images stored is 16 for large images and 32 for the small images.

6. Save the data.
7. Start recording to the frame buffer by clicking the corresponding option in the table in the lower part of the page. The black indicator to the right of the option will change to red.
8. Repeat steps 1 to 7 for other frame buffers, if desired.

Stop recording to the frame buffer by clicking the corresponding option in the table in the lower part of the page. The red indicator to the right of the option will change back to black.

To send a frame buffer by e-mail or VdS 2465 notification, open the "Configuration / Action / eMail or VdS2465" page, select the desired message and activate the checkbox(es) next to the desired frame buffer(s). After they are sent, frame buffers are automatically restarted. The images stored in the buffer are overwritten by a new event.
A frame buffer that was activated but not sent will not be restarted. In this case, all the pre and post event images will be displayed.

### 9.4.3 Output (Time)

If an event occurs (at an input or under time-control) that is assigned an output, this output is activated for the set time. For information on activating the outputs manually, refer to Chapter 8.5.1.

1. Enter a name.
2. Enter the operating time for each of the two outputs (Output 1 and Output 2) in the "Operating time" input field.
3. Save the data.

### 9.4.4 Transferring Data via FTP (Upload)

At predefined points in time or in response to an event, the Convision V6xx A can transfer an image (Upload) to a web server directory via FTP.
In this case, the Convision V6xx A is the FTP client. (For information on configuring the Convision V6xx A as the FTP server, please refer to Chapter 9.1.10). You can transfer an up-to-date image recorded by any camera as well as data of a connected weather station.

☛ ***Note****: The login information can be obtained from your administrator (LAN) or from your provider.*

1. Select one of the 8 FTP uploads in the upper button bar.
2. Enter a name.
3. Specify the name or the IP address of the server to which the images are to be transferred.
4. Enter a login name and password with access rights to this server.

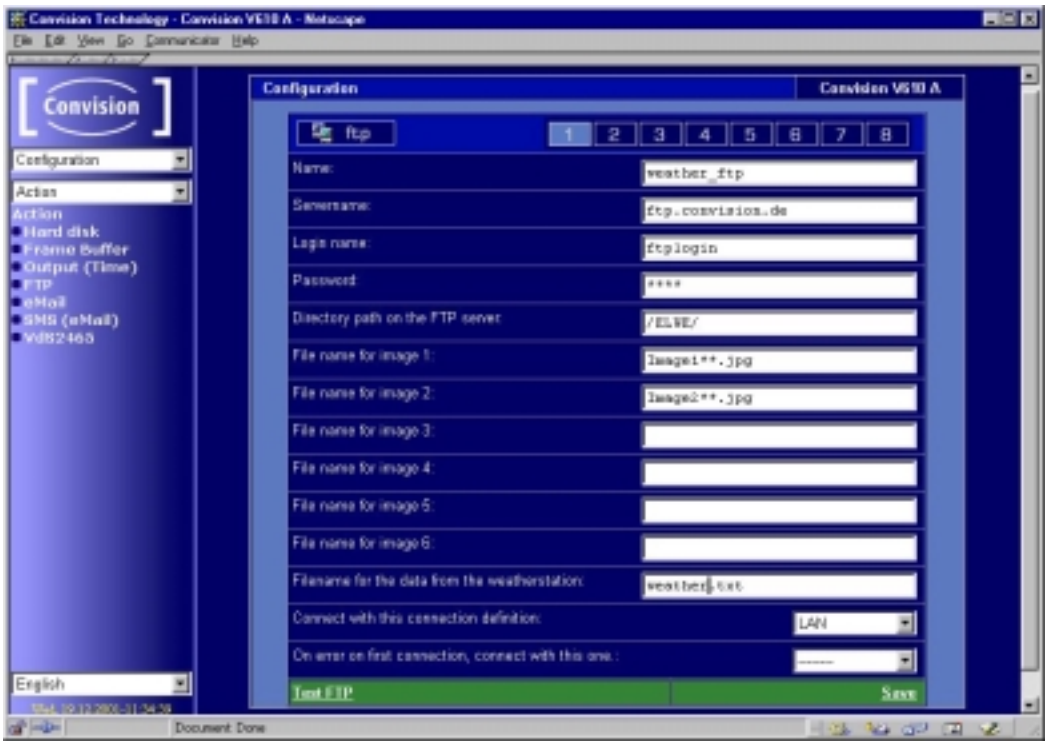



***Figure 46: FTP upload***

☛ ***Note:*** *If an anonymous access to a server is permitted, "anonymous" is often used as the login name and the password is your own e-mail address.*

5. If the images are not to be saved in the default directory of the user, enter the path to the server directory in which the images are to be stored.
6. Enter a name for the image file. Images will only be transferred if a file name is entered.
7. Enter a file name for the data from the weather station. The data is transferred as an HTML file by default. If you enter ".txt" as the file name extension, the data is transferred as a text file.
8. Specify the connection via which the upload is to be performed.
9. Enter an alternative connection that is to be used if the first one fails.
10. Repeat steps 1 to 9 for other FTP uploads, if desired.
11. Save the data.

☛ ***Note:*** *The filenames may contain wildcards so that the images can be saved on a server using consecutive numbers. Using the name "image*.jpg" will copy the images "image0.jpg" to "image9.jpg" to the server. An additional "*" needs to be entered for each digit required, i.e. the name "image**.jpg" will copy the images "image00.jpg" to "image99.jp"" to the server. The image counter is reset to zero once you save the FTP message.*

## 9.4.5 Notification via E-Mail

At predefined points in time or in response to an event, the Convision V6xx A can send an e-mail to as many as 10 addresses.
You can attach an up-to-date image recorded from any camera, frame buffers as well as data from a connected weather station to the e-mail.

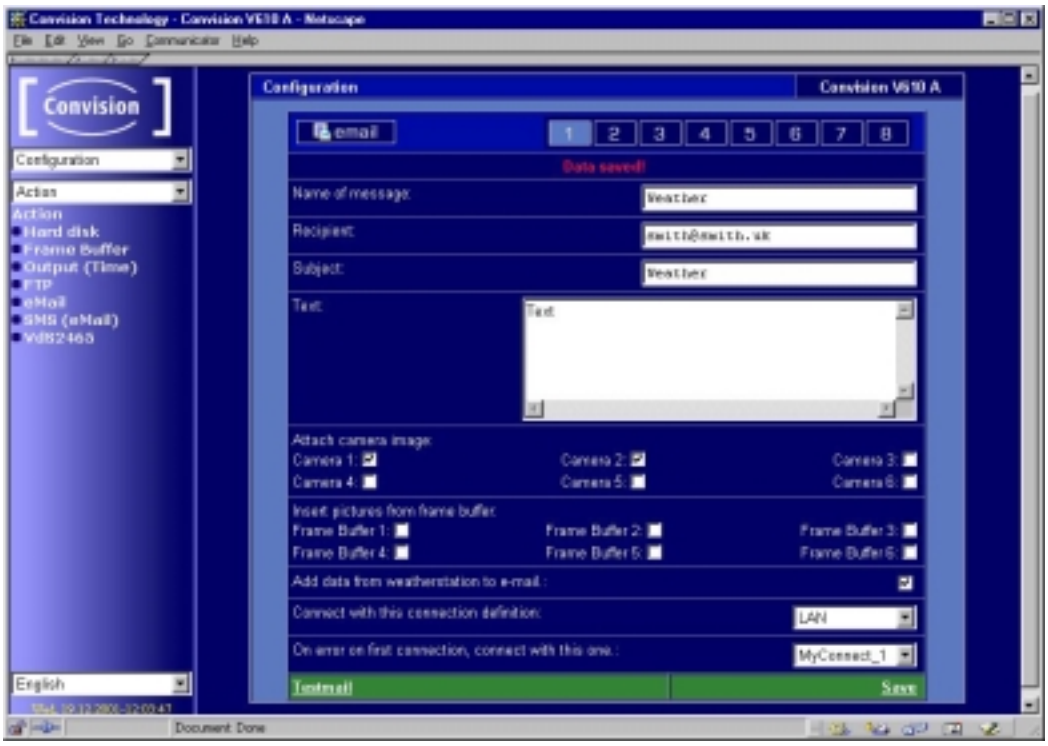



***Figure 47: Configuring e-mail notification***

1. Select one of the 8 messages in the top button bar.
2. Enter a name.
3. Enter the e-mail address of the recipient in the "Recipient" field. If the message is to be sent to multiple recipients (max.10), separate the e-mail addresses using a semicolon.
4. Enter the reference in the "Subject" field (e.g. alarm).
5. Enter the message in the ”Text” box (e.g. burglary at xxx., address: xxxx etc.).
6. You can attach images recorded by each camera to the e-mail. For this purpose, activate the checkbox next to the desired cameras.
7. You can attach images stored in the frame buffers to the e-mail. For this purpose, activate the checkbox next to the desired frame buffers.

*If you append images from several frame buffers, the e-mail may become very large. In this case, it may not reach the recipient at all.*

8. To attach data from a connected weather station, activate the corresponding check box.

9. Specify the connection that is to be used to send this e-mail.
10. Enter an alternative connection that is to be used if the first one fails.
11. Repeat steps 1 to 10 for other e-mails, if desired.
12. Save the data.

## 9.4.6 Notification via SMS (Short Message Service)

At predefined points in time or in response to an event, the Convision V6xx A can send an SMS to as many as 10 addresses.
An SMS can have a maximum length of 160 characters. You cannot attach any other data.

*SMS messages are sent to the mobile telephone via the e-mail function of the provider, which means the e-mail/SMS function must be enabled for this telephone.*

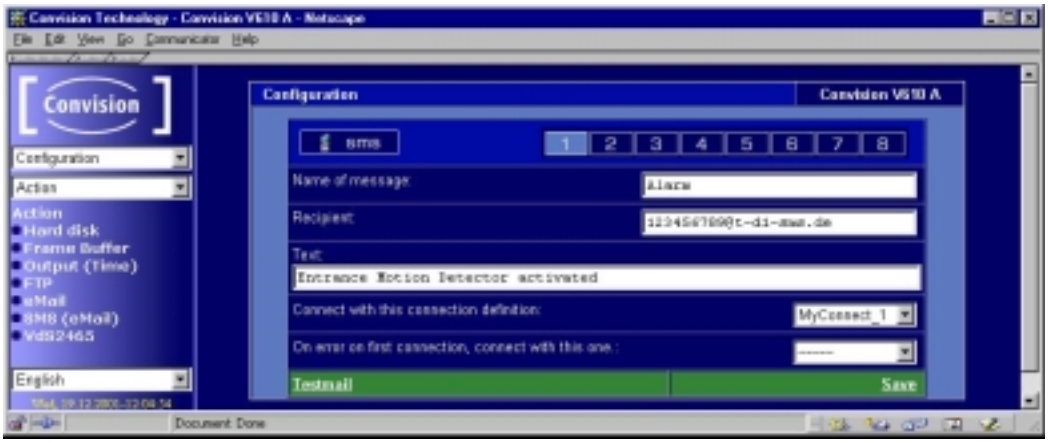



***Figure 48: Configuring SMS***

1. Select one of the 8 SMS in the top button bar.
2. Enter a name.
3. Enter the e-mail address of the mobile telephone in the "Recipient" field. If the message is to be sent to multiple recipients (max.10), separate the e-mail addresses using a semicolon.

☛ ***Note:*** *Since the messages can be sent via e-mail to a mobile telephone, ask your mobile network operator for the e-mail address of the mobile telephone (e.g. <phone number> @d2-message.de, <phone number>@t-d1-sms.de, <phone number>@smsmail.eplus.de).*

4. Enter the message text in the "Text" field (max. 160 characters).
5. Specify the connection that is to be used to send the SMS.
6. Enter an alternative connection that is to be used if the first one fails.
7. Repeat steps 1 to 6 for other SMS, if desired.
8. Save the data.

### 9.4.7 VdS2465

In response to an event, the Convision V6xx A can send a VdS notification to an alarm center. You can attach several frame buffers to the notification. (For information on configuring the connection, refer to Chapter 9.1.2, VdS 2465).

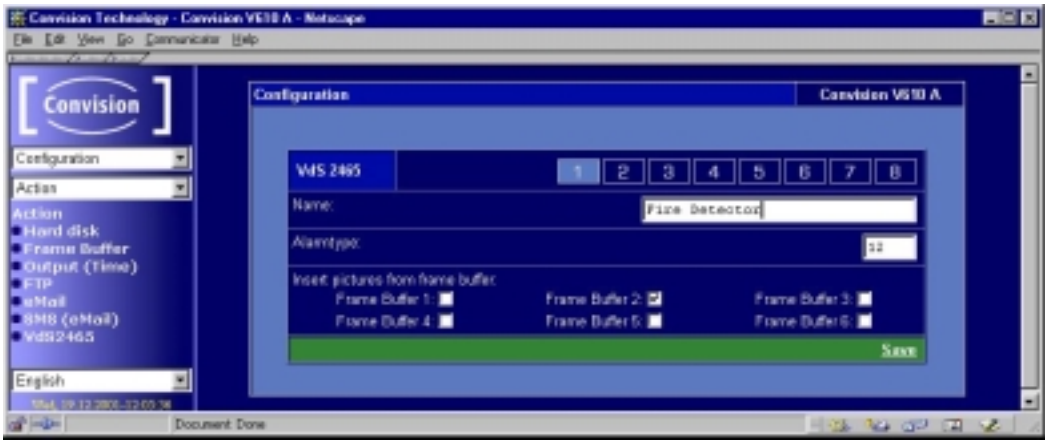



***Figure 49: Configuring VdS2465***

1. Select one of the 8 messages in the top button bar.
2. Enter a name.
3. Enter an alarm type. Ask your alarm center for a list of alarm types you can use.
4. You can attach images stored in the frame buffers to the message. For this purpose, activate the checkbox next to the desired frame buffers.
5. Repeat steps 1 to 4 for other messages, if desired.
6. Save the data.

## 9.5 Configuring the Hard Disk(Convision V610 A/ 611 A only)

### 9.5.1 Partitioning the Hard Disk

In the "Partition" menu, you can subdivide the hard disk  in as many as 8 partitions.

There are 4 different types of partitions.

Long-time recording: The recordings are started either dependent on time or via the user interface. Multiple cameras may record on one partition.

Ring buffer: for recording pre and post event images.

Impulse controlled: for post event recordings in a preset time period.

Contact controlled: for recordings in a time period determined by a trigger element, e.g. for as long as a motion detector signals movements.

☛ ***Note:*** *Once you have set up a partition, you can no longer change its parameters. You can, however, delete the partition and set up a new one. If you set up further partitions later on, you must delete these first as well.*

When setting up a partition, hard disk storage space is reserved for the images according to the parameters you specify. If the images cannot be recorded at the defined speed because the system is busy with other tasks, the recording procedure is continued until the reserved storage space has been used. In this case, the recording time is longer than originally defined.

*If you want to set up a partition, the size of which exceeds the storage space still available, the size of the partition will be limited to the remaining storage. You will not see an error message but the partition will be smaller than expected.*

## Long-Time Recording

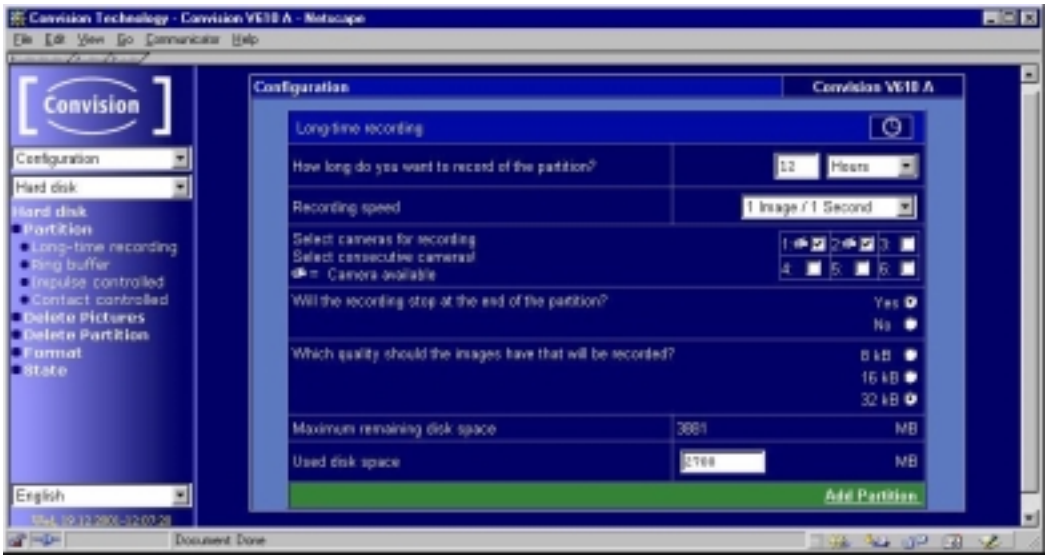



***Figure 50: Setting up a long-time recording partition***

1. Specify for how long you want images to be recorded to the partition. You can select "Seconds", "Minutes" or "Hours".
2. Select the recording speed from "25 Images / 1 Second" to "1 Image / 60 Seconds".

☛ ***Note:*** *The maximum recording speed depends on the number of cameras recording simultaneously. With 3 cameras connected, the maximum recording speed is 2 images/second for each camera if all the images are stored on the same partition.*

3. Select the cameras for recording. You must select cameras in consecutive order, e.g. 3, 4, 5 or 2, 3. The connected cameras are identified by a camera icon. You can record with all the cameras at the same time.

4. Now specify whether the recording is to be stopped once the maximum number of images has been reached, or whether it is to be continued at the beginning of the partition.

*If the recording is continued once the maximum number of images has been reached, the images already recorded will be overwritten!*

5. Select the image quality. Smaller images have a lower quality but use less storage space.
6. Click the "Add Partition" button to accept the configured partition data. The storage space required for the settings selected will automatically be displayed along with the remaining storage space.

The beginning and end of the recording depending on time is defined via the "Configuration / Events / Period" or manually on the "Recorder" page.

## Ring Buffer

The ring buffer provides the possibility of recording pre event images in addition to the post event images.

The storage space assigned to the partition is subdivided into equal "ring buffers". The Convision V6xx A continuously records images on the first ring depending on the preferences. Once the storage space of the ring buffer has been used, the image data are overwritten.
If an event occurs (refer to Chapter 9.3), the previously recorded images are not overwritten but the remaining ring buffer will be filled. Then this ring is locked, and the next ring buffer is selected.

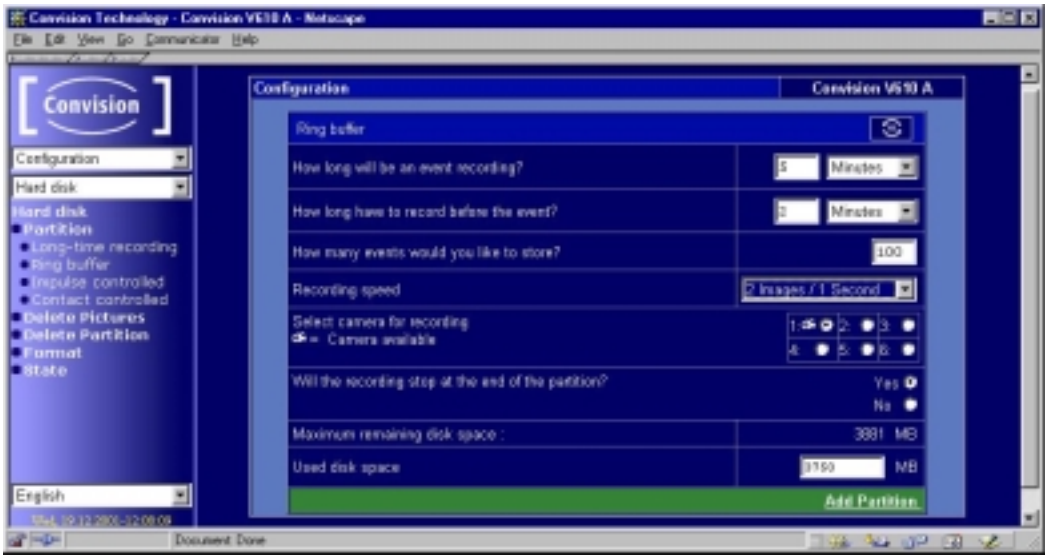



***Figure 51: Setting up a ring buffer partition***

1. Define the size of a ring buffer by entering a time in the first field. You can select "Seconds", "Minutes" or "Hours".
2. Now define what portion of the total recording time should be used for storing images prior to an event. The remaining time will be used for recording images following an event.

3. Now specify into how many ring buffers the partition is to be subdivided, i.e. how many events you want to record.
4. Select the recording speed from "25 Images / 1 Second" to "1 Image / 60 Seconds".
5. Select the camera for recording. The connected cameras are identified by a camera icon.
6. Now specify whether the recording is to be stopped once the maximum number of images has been reached, or whether it is to be continued at the beginning of the partition, i.e. on the first ring buffer.

*If the recording restarts on the first ring buffer, images already recorded are overwritten!*

7. Click the "Add Partition" button to accept the configured partition data. The storage space required for the settings selected will automatically be displayed along with the remaining storage space.

The recordings are started manually or when the first event occurs. They are stopped according to your settings and the next ring buffer is started. When a recording is started by an event, there will be no pre event images on the first ring buffer. A recording in progress can be stopped manually on the "Recorder" page.

☛ ***Note:*** *If an event occurs while a recording is in progress, the recording related to the second event is started directly after the first recording is terminated.*

## Impulse Controlled

The pulse caused by an event (refer to Chapter 9.3) triggers the recording of images for a preset period of time.

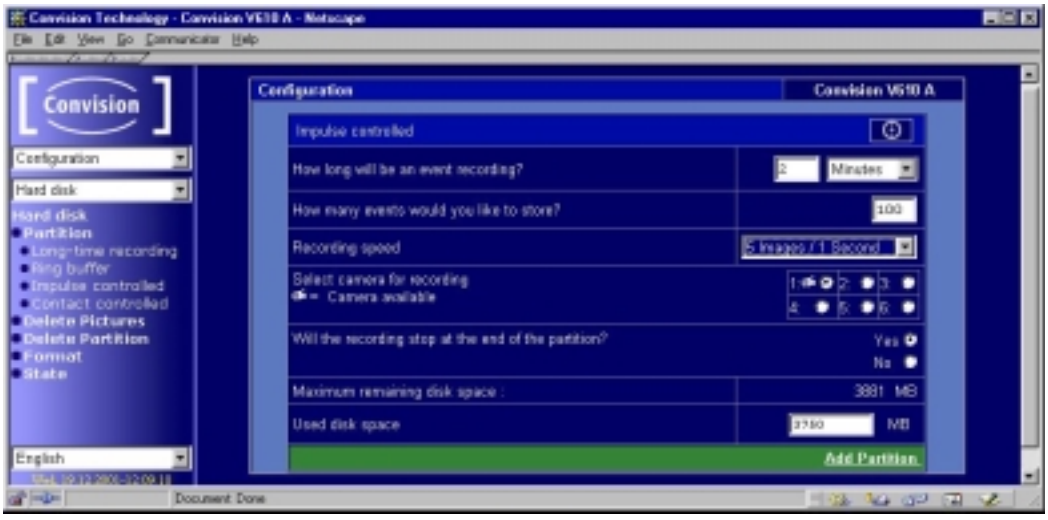



***Figure 52: Setting up an impulse controlled partition***

1. Set the recording time of an event. You can select "Seconds", "Minutes" or "Hours".
2. Specify the number of events to be stored.

3. Select the recording speed from "25 Images / 1 Second" to "1 Image / 60 Seconds".
4. Select the camera for recording. The connected cameras are identified by a camera icon.
5. Now specify whether the recording is to be stopped once the maximum number of images has been reached, or whether it is to be continued at the beginning of the partition.

*If the recording is continued once the maximum number of images has been reached, the images already recorded will be overwritten!*

6. Click the "Add Partition" button to accept the configured partition data. The storage space required for the settings selected will automatically be displayed along with the remaining storage space.

The recordings are started when an event occurs and stopped according to your settings.

☛ ***Note:*** *If an event occurs while a recording is in progress, the recording related to the second event is started directly after the first recording is terminated.*

## Contact Controlled

The recording of the images continues for as long as an event input of the Convision V6xx A is activated. For example, recording continues whilst there is movement in the range of the motion detector. Since there is no possibility of determining the lengths of the individual recording sessions, you cannot define the number of events that are to be stored. For this reason, you have to define the size of the entire partition.

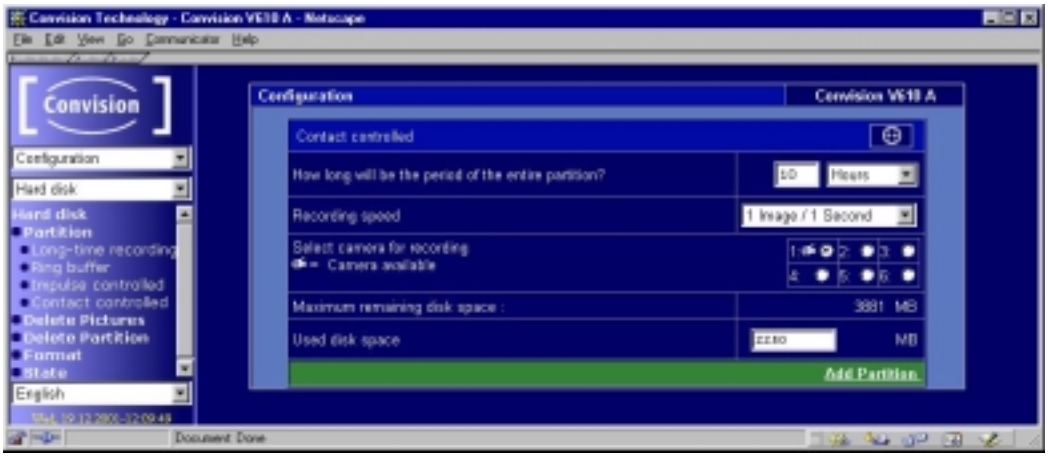



***Figure 53: Setting up a contact-controlled partition***

1. Specify the total recording length of the partition. You can select "Seconds", "Minutes" or "Hours".
2. Select the recording speed from "25 Images / 1 Second" to "1 Image / 60 Seconds".
3. Select the camera for recording. The connected cameras are identified by a camera icon.

4. Now specify whether the recording is to be stopped once the maximum number of images has been reached, or whether it is to be continued at the beginning of the partition.

*If the recording is continued once the maximum number of images has been reached, the images already recorded will be overwritten!*

5. Click the "Add Partition" button to accept the configured partition data. The storage space required for the settings selected will automatically be displayed along with the remaining storage space.

The recording sessions are started and stopped by events.

## 9.5.2 Deleting Images on Individual Partitions

On this page you can completely and irrevocably delete all the images stored on the corresponding partition by clicking the "Delete images" button.

☛ ***Note:*** *It is not possible to delete individual images. You cannot delete images during a recording session.*

## 9.5.3 Delete Partition

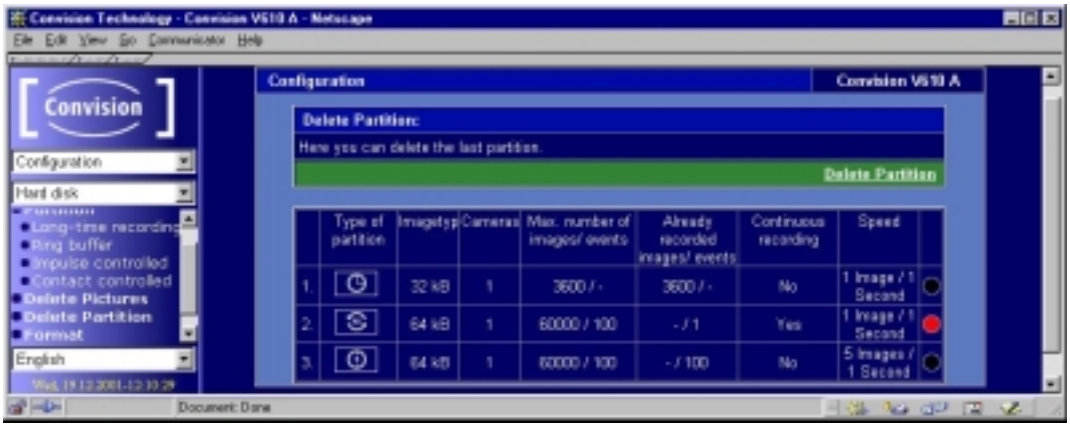



***Figure 54: Page for deleting individual partitions***

In this menu you can completely and irrevocably delete the last partition set up. All the existing partitions with their set parameters, the total hard-disk space used and the remaining free disk space will be displayed. If you want to delete all the partitions, it is advisable to format the hard disk (refer to Chapter 9.5.4).

☛ ***Note:*** *You cannot delete the partition while recording.*

## 9.5.4 Format

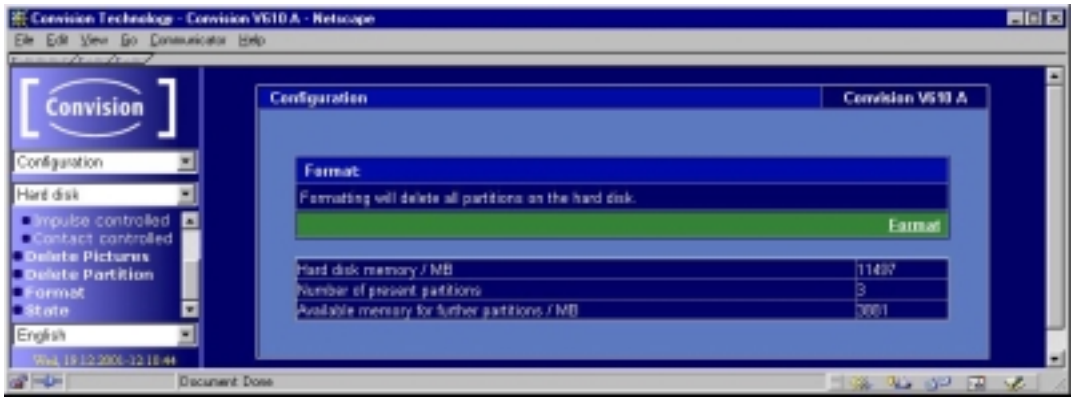



***Figure 55: Format menu***

In the "Format" menu you can delete all the partitions from the hard disk. You can then set up new partitions in the "Partition" menu.

*During the formatting process, all the data will be deleted from the hard disk.*

## 9.5.5 Status – Information on the Hard Disk Partitioning

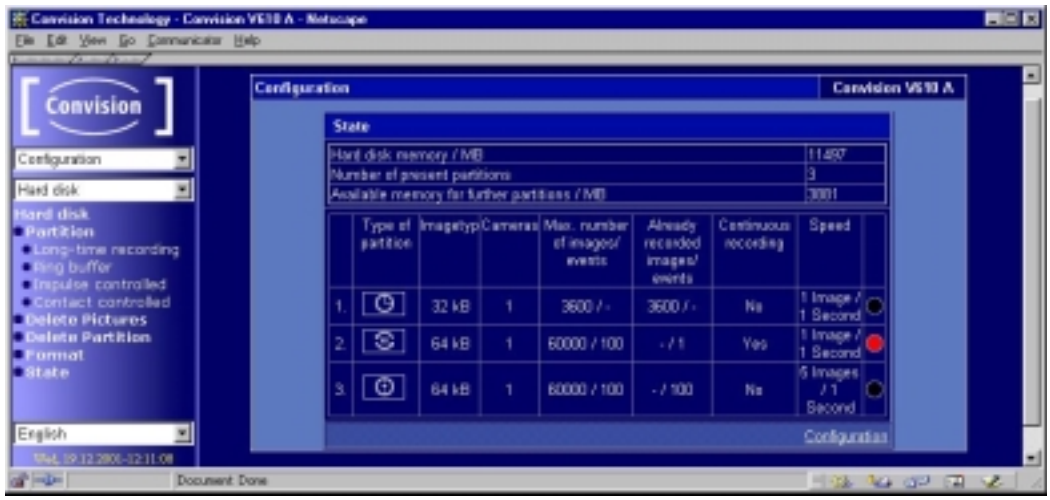



***Figure 56: Hard disk status***

This menu displays up-to-date information on your hard disk. This consists of:

- total storage capacity of the hard disk
- number of partitions set up
- remaining free disk space

Information on the individual partitions is displayed below these general data. This consists of:

- type of partition (refer to Chapter 9.5.1)
- cameras selected
- maximum number of images/events that can be stored on the partition
- number of images/events already recorded
- Continuous recording – specifies whether the recording is terminated or continued at the beginning of the partition once the maximum number of images has been reached.
- recording speed at which the images are stored on the partition
- the indicator in the bottom right-hand corner shows whether a recording is in progress or not

| | |
|---|---|
| black indicator | recording not in progress |
| red indicator | recording in progress |

# 10 General Descriptions

## 10.1 Using the Convision V6xx A as a Video Server

If the Convision V6xx A is integrated in your LAN with a fixed IP address, it can be accessed as a web server directly from the Internet . However, do bear in mind that the capacity of the video server is limited – with a large number of users, a proxy server solution is strongly recommended (CGI script and daemon on a more powerful web server).
A great advantage of this connection option are the high image refresh rates.

## 10.2 Server Push, ActiveX and Java Applet

There are three options for displaying frame sequences (Motion-JPEG) in your browser:

Server Push is a software program executed in the browser for continuously playing back images without the connection between the server and browser being interrupted. It is available in Netscape Navigator only.
Convision Technology developed an ActiveX plugin especially for displaying frame sequences in Internet Explorer. When starting the first frame sequence using this program, it will be installed as a plugin for the Internet Explorer on your computer.
A Java applet also developed by Convision Technology GmbH is available for this and all the other browsers.

## 10.3 FTP

For transmitting images via FTP (File Transfer Protocol), the Convision V6xx A can be used either as an FTP server or as an FTP client. It is always the client that takes the initiative for transferring data.

As a server, the Convision responds to the request of a client, e.g. the browser, and sends the requested images (FTP download). As a client, the Convision V6xx A dials up a server and transmits one or more pre-configured images. An FTP upload is performed.

## 10.4 Password Encryption

Some providers use the encrypted submission of the registered password as an additional security feature. If you have defined a password for incoming or outgoing connections on the Convision V6xx A, you can activate the password encryption function.
If the provider does not accept the encrypted transfer of the password, the connection will still be established via the unencrypted transfer of the password.

If you did not define a password, this option will be ignored.
Ask your provider whether password encryption is supported or not.

# 10.5 Channel Bundling

An basic ISDN access provides two transmission channels with a bandwidth of 64 kbit each for language or other user data. These channels are referred to as B-channels. For a standard ISDN connection, only one of the two available B channels is used. When both the B-channels are used for data transfer, this is referred to as "channel bundling". This means, twice the data volume can be transferred at the same time. The charges accrue per channel, which means that they will be doubled during channel bundling.

Channel bundling can be activated individually for incoming and outgoing connections to the Convision V6xx A.

Not all providers support this option. If you activated channel bundling but your provider does not support this option, a single channel connection will be established. Ask your provider whether channel bundling is supported or not.

☛ ***Note****: If your provider does support channel bundling but it is not possible to bundle the two lines, the connection will be terminated with an error message in the status display (refer to Chapter 9.1.12).*

# 10.6 SMTP or Mail Server

An SMTP (Simple Mail Transfer Protocol) server forwards outgoing e-mail messages to the recipient. The address of the SMTP server can be obtained from the system administrator for a LAN connection and from your telecommunications provider for an ISDN connection.
To be able to access the SMTP server, the e-mail address of the sending Convision V6xx A must be registered with the provider.

### SMTP-after-POP

Some mail providers use the SMTP-after-POP technique to prevent someone with a falsified e-mail address from using the SMTP server. Since there is no authentication for the SMTP server, the server requires a login via a POP3 (Post Office Protocol – protocol for accessing servers that store e-mails for other computers) access first.
If your provider demands this authentication, enter the login name and password you need to retrieve your e-mail in the respective fields.

# 10.7 Control via CGI Parameters

CGI (Common Gateway Interface) is a way of providing programs that can be opened by HTML files. The program and the parameters to be used to open the program are placed in the URL following the IP address. An example is given below:

http://IP_address/path/CGI program?Parameter1=value1&Param2=value2&...

This program with its parameters can be opened using a button, a link, a form or the address line of a web page. CGI programs are used by the Convision Call service, for example, or for controlling non-supported devices via the serial URL port.

For more information on this topic, please refer to the Convision Programmer Manual, which can be downloaded free of charge at www.convision.de.

# 10.8 The TCP/IP Protocol Group

TCP/IP is a group of protocols with the TCP (Transmission Control Protocol) and IP (Internet Protocol) being the group's most important components. They form the widest spread solution in the area of internetworking and have established a de facto market standard.

To integrate a device into your local area network properly, you have to assign an IP address to the device. This section will describe the structure of IP addresses and network masks so that you can set them correctly. You will also find information on the services and protocols of TCP/IP.

## The IP Address

Internet addresses are used to identify computers in TCP/IP networks. They form an integral part of the Internet Protocol and are therefore referred to as IP addresses.

## The Structure of an IP Address

The IP address is a binary code with a length of 4 bytes. To make this structure easier to understand, the individual bytes are separated by full stops and written as decimal figures. Take a look at the following example:

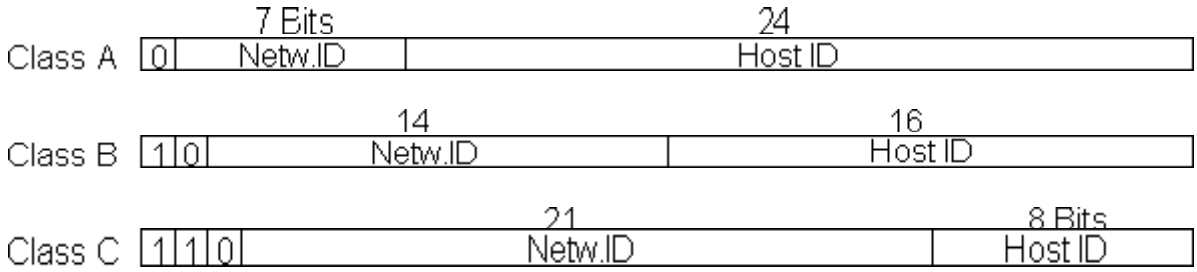
Assuming a computer has the IP address: 11000000 10101000 01100100 00000010

In decimal notation this address is: 192.168.100.2

Every IP address is made up of a network identification (network ID) and a host identification (host ID). This structure is similar to that of a telephone number, which is also divided into a local area code and a subscriber ID. As opposed to a telephone number, the length of an IP address never changes.

Depending on the length of the host ID and network ID, the IP addresses are grouped into network classes. The A, B and C network classes primarily used are presented in the following graphics. The D and E classes are reserved for special purposes.

As shown in the graphics, the longer the host ID, the shorter the network ID. This means, the possible number of network IDs per network class and the possible number of host IDs per network vary.




For example, network class B contains 16.384 subnets with 65.534 hosts each, while network class C contains 2.097.154 subnets with 254 hosts each.

## The Domain Name Service (DNS)

Although the decimal notation of the IP address is already simplified, it remains a rather difficult-to-use method of addressing a computer in the internet.

This is why the domain name service (DNS) was developed. The domain name service enables the assignment of a name to each computer in a TCP/IP network. This name has nothing to do with the IP address of the computer but it is mapped to this IP address using specific mechanisms. This means that the name can be used to determine the IP address. In addition, it is possible to structure a TCP/IP network hierarchically and to group the computers according to geographic or thematic criteria. These groupings are referred to as domains.

Example:

Assuming a computer has the IP address 192.168.101.16:

It has the assigned name "Computer.organization.de". This is a name for any computer in any company located in Germany.

The fundamental component of the DNS is a hierarchically organized database that is managed by a suitable server, referred to as the DNS server. These DNS servers can be either public or part of a private network.

If a DNS server is not available in your LAN, use a simpler form of name assignment such as a text file that maps the names of the individual computers to the associated IP addresses.

☛ ***Note:*** *This file named Hosts is stored in the Windows directory (Windows 95), in the WINNT directory (Windows NT) or as /etc/hosts under Unix.*

## Private IP Space

The IP address is an integral part of the Internet Protocol, which forms the basis for communication in the Internet and is also often used in a LAN. The network mask is used to subdivide larger networks. The IP address must be unique across the entire network, in which it is registered.

If you are not planning a permanent internet access of your own or are not using a respective filtering system, the IP address of the computer cannot be registered in the public Internet. In this case you should select an IP address from the "private IP space".

These are IP addresses designed for local networks that will not be forwarded in the Internet. Computers with addresses of this kind are not visible outside the local network. For class C networks there are 256 address spaces, namely from 192.168.0.x to 192.168.255.x.

The only issue to be considered when selecting addresses from this space is the allocation of IP numbers from the same address space for a class C network. All computers must have addresses within the range of 192.168.12.1 to 192 168.12.254, for example. The numbers 0 and 255 are reserved for special functions and must not be assigned.

## Dynamic IP Addresses

Since the length of the IP address has been restricted to 32 bits, the number of IP addresses available worldwide is rather limited. At the same time, however, the worldwide demand for IP addresses is increasing, e.g. due to the increased interest in the World Wide Web.

The dynamic IP addresses provide a solution to this problem. In this case, IP addresses are assigned for temporary use from an IP address pool, including all the information on gateways, network masks, DNS servers and the like. After a specific time, the IP address returns to the pool and is available again.

This system is used when connecting to Internet providers, for example. The IP addresses assigned within your LAN are not made public in this process.

## Static IP Addresses

If your IP address is to be visible in the public Internet, e.g. if you want to maintain your own web server, this address must be unique worldwide. To obtain an IP address of this type, please contact your Internet service provider or the German Network Information Center (DE-NIC).

## The Network Mask

The network mask is used to determine which part of the IP address describes the network and which part identifies the computer in the network. Example:

Assuming the IP address of a computer is 192.168.100.3

And assuming the net mask is 255.255.255.0.

Then the network identification is 192.168.100.

The fourth number identifies the computer.

☛ ***Note:*** *Incorrectly defined IP addresses and network masks very often cause errors in TCP/IP networks. For this reason, if you are not absolutely sure or if problems come up, please contact an experienced network administrator.*

# 11 Technical Data

## 11.1 Convision V600 A

- Video Web server

**Standard model**

| | |
|---|---|
| Camera inputs | 6 FBAS inputs, PAL, NTSC, BNC connectors (female) |
| Interfaces | 2 x RS232 (serial), D-Sub9 connectors (female) |
| Detector inputs | 1 x key-operated switch lock, 6 NC inputs for motion detectors etc. |
| Alarm outputs | 1 x open collector (100 mA), 1 x 12 V/500 mA switching output |
| Audio function | Via the second ISDN B-channel, door intercom system, e.g. TLE051-01 by Siedle |
| Dome support | E.g. Sensormatic SpeedDome, Philips G3 AutoDome, Ernitec BDR510, Ernitec BDR550, ECV Telematria |
| Alarm center support | The VDS 2465 protocol is supported. |
| ISDN | DSV6xx Euro ISDN RJ45 connector (female), PPP protocol, channel bundling |
| Ethernet | 10 Base T with RJ45 connector (female) |
| Frame format | JPEG, up to 25 fps (PAL), up to 30 fps (NTSC) |
| Compression | Approx. 3-50 KB/frame, depending on resolution and compression factor |
| Pre / post alarm frames | 32 frames with a resolution of 192 x 144 pixels or 16 frames with a resolution of 384x288 pixels |
| Protocols | TCP/IP, HTTP, FTP, SMTP Client |
| Configuration | Completely with a Web browser via HTML |
| Internet browser | Web browser supporting HTTP 1.0 and HTML 3.2, Java Script 1.2, Java 1.1.8 |
| Power supply | External 12 V/1.5 A multi-standard power pack<br>100 - 240 V |
| Power consumption | 6 W |
| Dimensions, weight | 163 x 80 x 185 (WxHxD), 1,295 g |
| Temperature range | 0 °C – 55 °C |
| Approvals | CE0682, EN 50082, EN 55022 |

## 11.2 Convision V610 A

- Video Web server including long-time recording module
- The basic technical data correspond to those of the Convision V600 A. Additional features:

**Long-time recording**

| | |
|---|---|
| Memory | Internal 2.5" notebook hard disk<br>with various storage capacities |
| Recording capacity | Depending on the type, 9 hours at 1 fps per GB<br>(resolution: 384 x 288) |
| Power consumption | 10 W |
| Temperature range | 0 °C – 55 °C |
| Dimensions, weight | 163 x 80 x 185 mm (W x H x D), weight: 1,435 g |

## 11.3 Convision V611 A

- Video Web server including GSM and long-time recording module
- The basic technical data correspond to those of the Convision V600 A. Additional features: **GSM module** and **long-time recording module**.

| | |
|---|---|
| GSM network | 900 phase II |
| Output power | 2 W / class 4 |
| Network access | Internal SIM card (not included in the scope of delivery) |
| Baud rate | Max. 14,400 bauds |
| Power consumption | 10 W + send < 2 W, receive < 400 mW |
| Temperature range | 0 °C – 55 °C |
| Dimensions, weight | 163 x 80 x 185 mm (W x H x D), weight: 1,540 g |

# Appendix A Configuring a Direct Connection via ISDN

## a - Configuring Dial-Up Networking in Windows NT

To install the ISDN access to your Convision V6xx A, a dial-up networking must be set up.

☛ ***Note:*** *During initial configuration of the Convision V6xx A via ISDN, enter neither a user name nor a user password for dial-up networking.*

Please proceed as follows:

***Figure 57: Configuring dial-up networking in Windows NT***

1. Double-click the "My Computer" icon on the desktop.
2. Select the "Dial-Up Networking" icon (double-click).

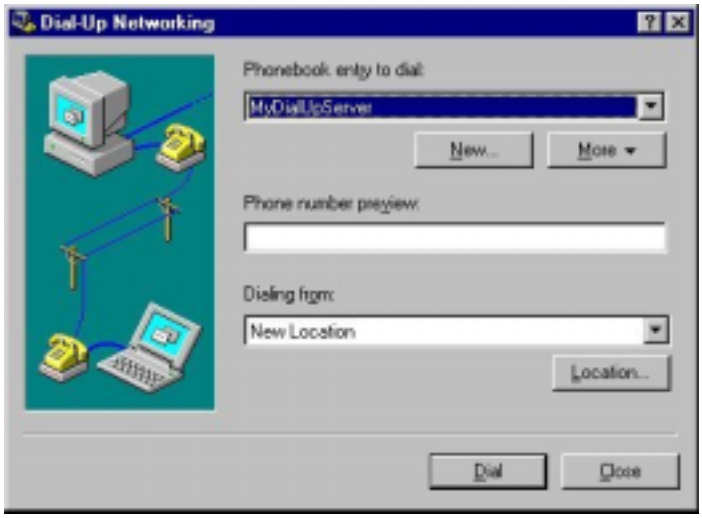



***Figure 58: Configuring dial-up networking in Windows NT***

3. Click the "New..." button. The New Phonebook Entry Wizard will be displayed.

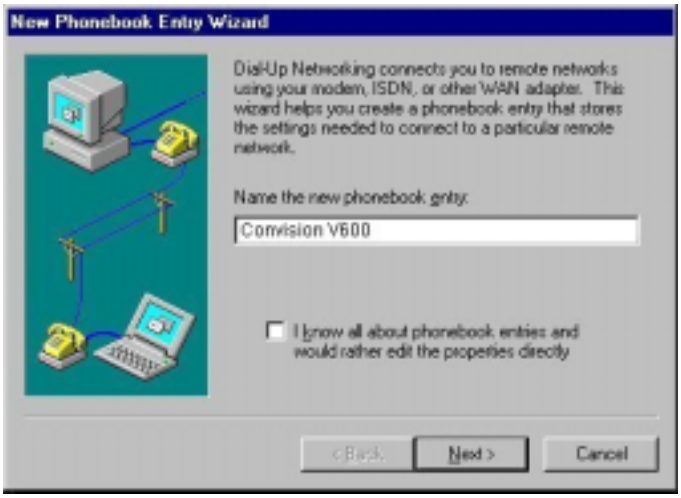

New Phonebook Entry Wizard
Dial-Up Networking connects you to remote networks using your modem, ISDN, or other WAN adapter. This wizard helps you create a phonebook entry that stores the settings needed to connect to a particular remote network.
Name the new phonebook entry:
Comvision V600
I know all about phonebook entries and would rather edit the properties directly
< Back
Next >
Cancel

***Figure 59: Configuring dial-up networking in Windows NT***

4. Enter the name "Convision V600" for the new phonebook entry and click the "Next" button.

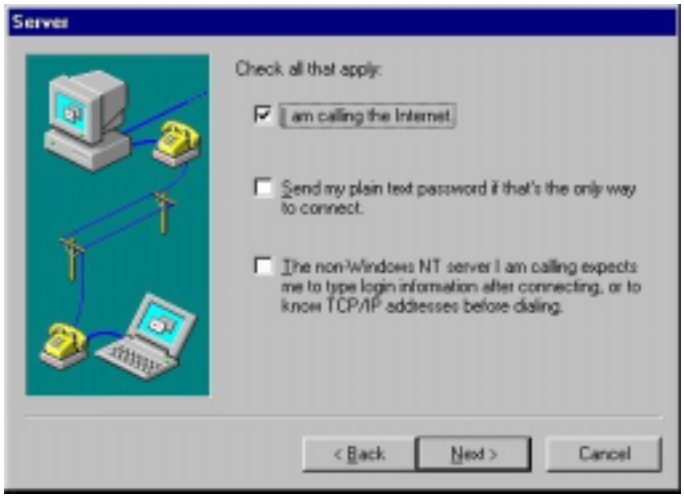

Server
Check all that apply:
I am calling the Internet.
Send my plain text password if that's the only way to connect.
The non-Windows NT server I am calling expects me to type login information after connecting, or to know TCP/IP addresses before dialing.
< Back
Next >
Cancel

***Figure 60: Configuring dial-up networking in Windows NT***

5. In the window displayed, perform the settings shown in the graphics below and click the "Next" button.

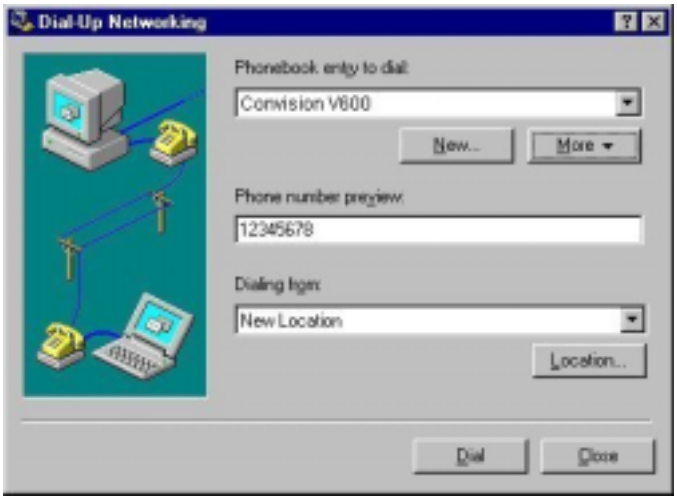



***Figure 61: Configuring dial-up networking in Windows NT***

6. Now repeat the first two steps and select "Convision V600" as the phonebook entry.

***Figure 62: Configuring dial-up networking in Windows NT***

7. Now enter the phone number assigned to the Convision V6xx A and click the "Next" button.
8. Click on "Finish" to save the phonebook entry.

***Figure 63: Configuring dial-up networking in Windows NT***

9. Click on "More" and select "Edit entry and modem properties....".

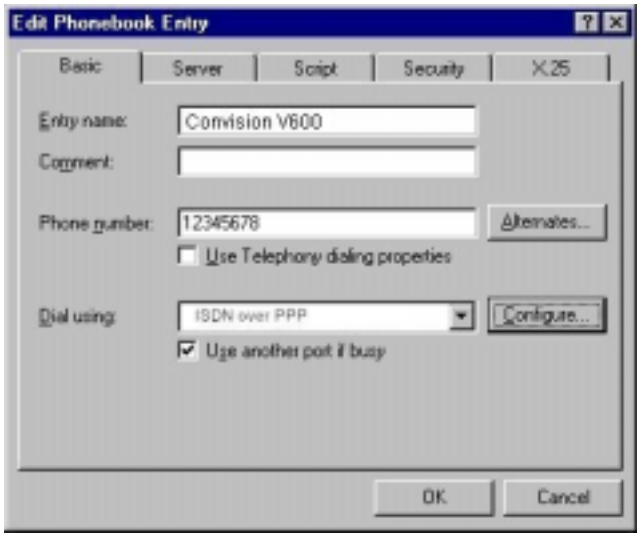



***Figure 64: Configuring dial-up networking in Windows NT***

10. On the "Basic" tab, select your ISDN card in the "Dial using" field.
11. For establishing a connection with channel bundling, select "Multiple lines " and define the lines to be bundled in the "Configure " field.

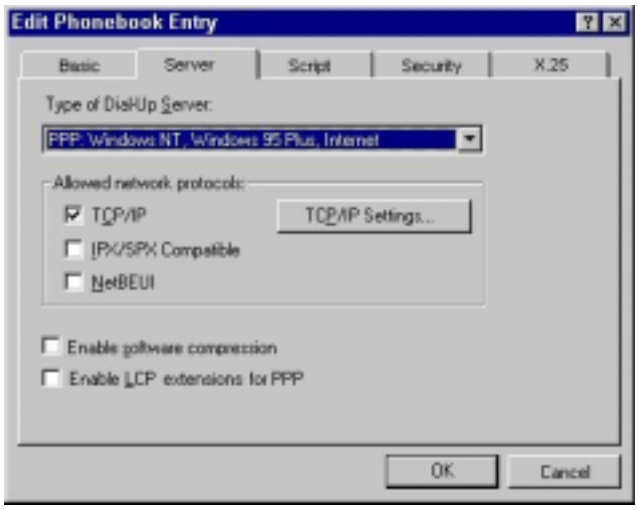



***Figure 65:Configuring dial-up networking in Windows NT***

12. On the "Server" tab, perform the settings shown in the following graphics.

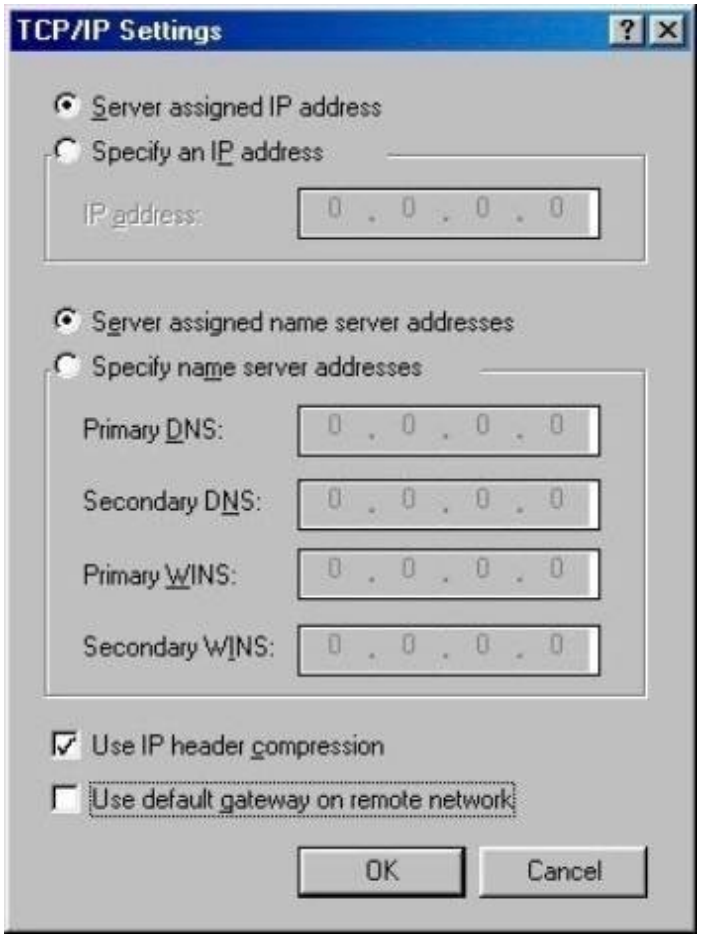



***Figure 66: Configuring dial-up networking in Windows NT***

13. Click the "TCP/IP Settings..." button and perform the following settings.
14. Confirm the settings by clicking "OK".

A Dial-up network for establishing a connection to the Convision V6xx A has now been configured. To establish a connection to the Convision V6xx A, select the "Convision V600" icon under "Dial-Up Networking", open it and click the "OK" button. Enter your user name and password (= PPP password, refer to Chapter 9.1.2) and click the "Connect" button. The ISDN connection to the Convision V6xx A will be established.

Start your browser and enter http://10.0.0.10 as the URL. The browser will display the homepage of the Convision V6xx A. Next you have to select the "Configure" button (upon delivery, the default administrator name is "admin" and the "Administrator password" field must remain blank), click "OK", then "Connections" and finally "ISDN/Modem". Now you have to enter the multiple subscriber number (MSN), at which the Convision V6xx A is operated. Additionally you have the possibility of defining the administrator password. Once you have made the required inputs, save them.

# b - Configuring Dial-Up Networking in Windows 9x

To install the ISDN access to your Convision V6xx A, dial-up networking must be set up. Please proceed as follows:

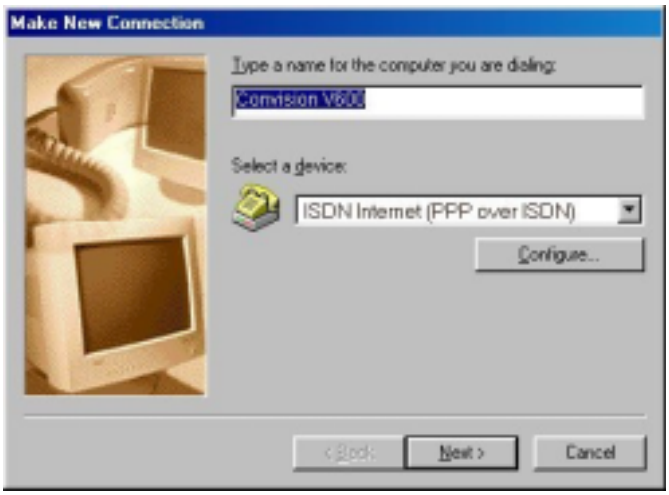



***Figure 67: Configuring dial-up networking in Windows 98***

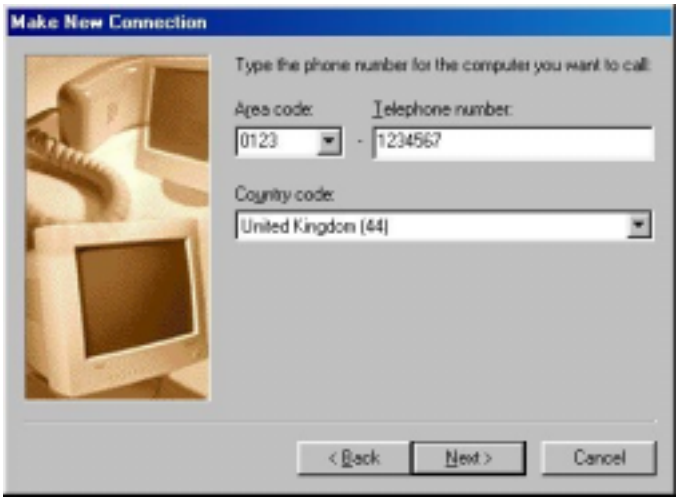



***Figure 68: Configuring dial-up networking in Windows 98***

1. Double-click the "My Computer" icon on the desktop.
2. Double-click the "Dial-Up Networking Application" icon.
3. Double-click the "Make New Connection" icon.
4. Enter the name "Convision V600" in the "My Connection" line.
5. Select your ISDN device in the "Select device" pull-down menu.
6. Click the "Next" button.
7. Now enter the ISDN number assigned to the Convision V6xx A.
8. Click the "Next" button.
9. When you click the "Finish" button, dial-up networking with the designation "Convision V600" will be set up for you.

***Figure 69: Configuring dial-up networking in Windows 98***

10. Now check the "Properties" of "Convision V600" dial-up networking.
11. For this purpose, repeat steps 1 and 2. You will then see the "Convision V600" icon.
12. Single-click the icon using the right mouse button and select "Properties" in the pop-up menu.
13. The settings made when setting up dial-up networking will be displayed.
14. If you want to set up a 2-channel connection, select the "Multilink" tab.
15. Select "Use additional devices", click on "Add" and additionally set up your ISDN card as an auxiliary device.

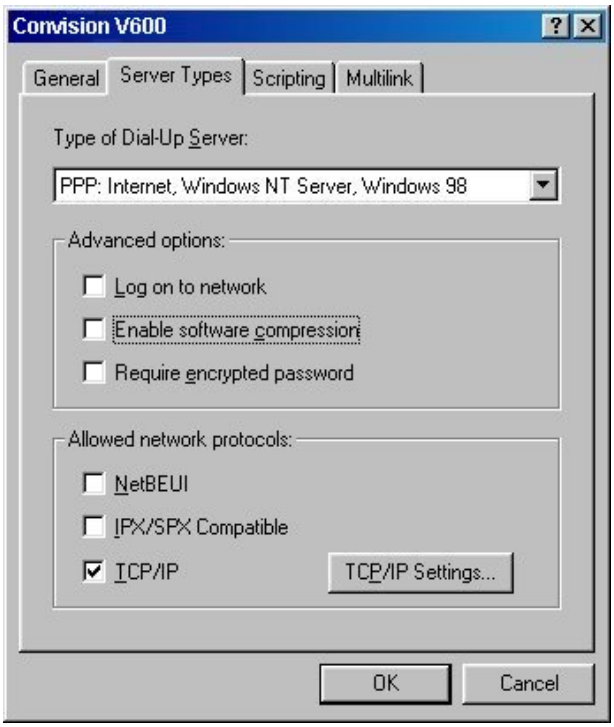



***Figure 70: Configuring dial-up networking in Windows 98***

16. Select the "Server Types" tab.
17. The following settings should be made according to the graphics.

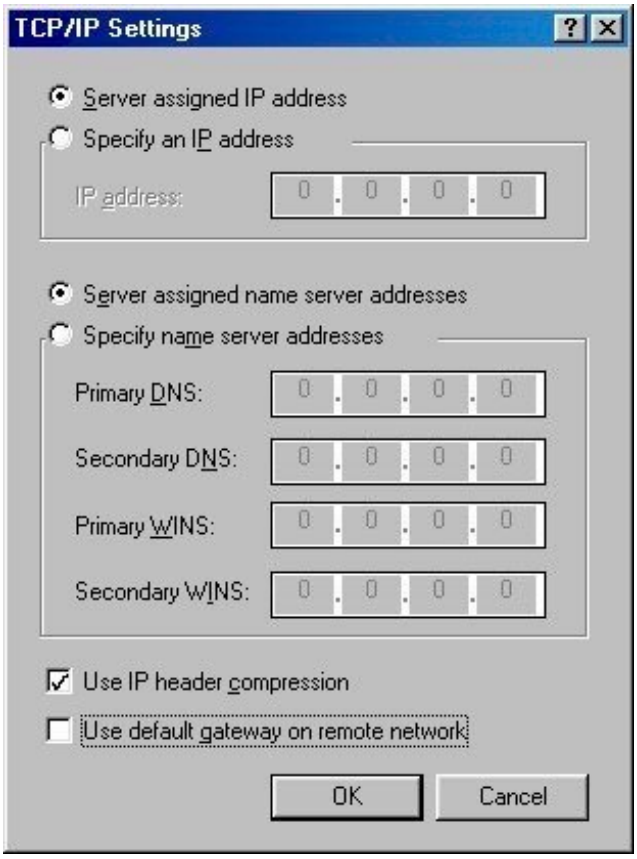



***Figure 71: Configuring dial-up networking in Windows 98***

18. Click the "TCP/IP Settings" button and perform the settings shown in the following graphics.
19. Once these settings have been configured, click "OK". Dial-up networking for establishing a connection to the Convision V6xx A has thus been configured. To establish a connection to the Convision V6xx A, select the "Convision V600" icon under "Dial-Up Networking Application", open it and click the "OK" button. Enter your user name and password (= PPP password, refer to Chapter 9.1.2) and click the "Connect" button. The ISDN connection to the Convision V6xx A will be established.

Start your browser and enter http://10.0.0.10 as the URL. The browser will display the homepage of the Convision V6xx A. Next you have to select the "Configure" button (upon delivery, the default administrator name is "admin" and the "Administrator password" field must remain blank), click "OK", then "Connections" and finally "ISDN/Modem". Now you have to enter the multiple subscriber number (MSN), at which the Convision V6xx A is operated. Additionally you have the possibility of defining the administrator password. Once you have made the required inputs, save them.

☛ ***Note:*** *During initial configuration of the Convision V6xx A via ISDN, enter neither a user name nor a user password for dial-up networking.*

***Figure 72: Activating the 2nd channel***

☛ ***Note:*** *When you want to use channel bundling, some providers require that you explicitly enable the 2nd channel when establishing a connection to the Convision V6xx A.*

1. For this purpose, open the window with the connection parameters for the dial-up line by double-clicking the icon assigned to the connection.
2. Click the "Details" button, then click "Activate" for the additional devices.

# Appendix B Configuring the Local Area Network (LAN)

## a - Checking IP Addresses in Windows

To ascertain whether or not an IP address has already been assigned in your network, enter the following command in the DOS window:

- ping <IP address> (then click Enter)

If there is no response (timed out), the IP address has probably not yet been assigned. However, if a value is returned as a response, the IP address has already been assigned. In this case, you need to choose another IP address.
The network mask can be checked as follows:

### In Windows 9x:

1. Click "Start" and select "Run".
2. Enter "WINIPCFG" in the command line and click "OK".
   All the information will be displayed in a window.

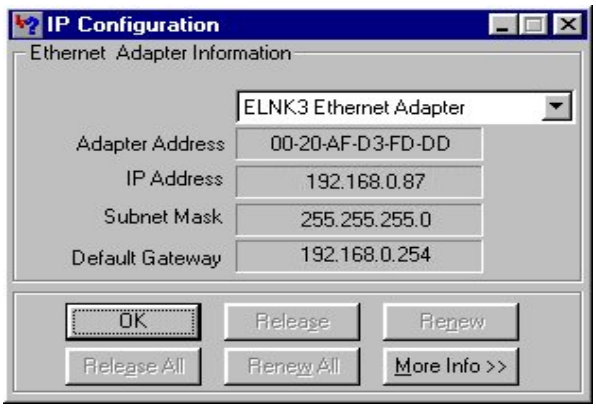



***Figure 73: Checking the network mask***

### For Windows NT, proceed as follows:

1. Click "Start" and select "Run".
2. Enter "cmd /k IPCONFIG" in the command line and click "OK".
   All the information will be displayed in a window.

## b - Configuring the Network (LAN) ) in Windows NT

Before starting to configure the Convision V6xx A, your network card and the Windows NT operating system must first be configured for using the TCP/IP protocol family (refer to Chapter 10.8 for more information).
To this end, proceed as follows:

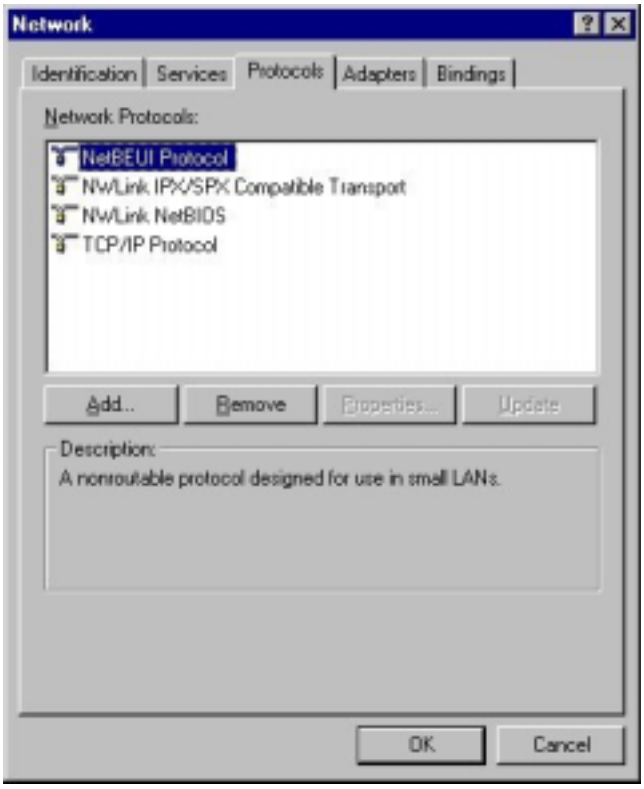



***Figure 74: TCP/IP protocol***

1. Open the Control Panel via "Settings" in the Start menu.
2. Select the "Networking" icon.
3. Select the "Protocols" tab.
4. If the TCP/IP protocol has not yet been installed, click "Add...".
5. In the following menu, select the TCP/IP protocol.
6. Click the "OK" button.
7. If the TCP/IP protocol is installed, select it and click the "Properties..." button.

Microsoft TCP/IP Properties
IP Address
DNS
WINS Address
DHCP Relay
Routing
An IP address can be automatically assigned to this network card by a DHCP server. If your network does not have a DHCP server, ask your network administrator for an address, and then type it in the space below.
Adapter:
[1] The 10/100M Fast Ethernet Adapters
Obtain an IP address from a DHCP server
Specify an IP address
IP Address:
192 . 168 . 100 . 3
Subnet Mask:
255 . 255 . 255 . 0
Default Gateway:
192 . 168 . 100 . 10
Advanced...
OK
Cancel
Apply

***Figure 75: Assigning an IP address***

Since your configuration PC must have an IP address for communicating with the Convision V6xx A, an address must be assigned at this point.

To this end, proceed as follows:

8. Select the "IP Address" tab.
9. Activate "specify an IP address".
10. Enter the IP address and subnet mask.

Once these settings have been made on your computer, you are able to communicate with your Convision V6xx A.

## c - Configuring the Network (LAN) in Windows 9x

Before starting to configure the Convision V6xx A, your network card and the Windows 95 operating system must first be configured for using the TCP/IP protocol family (refer to Chapter 10.8 for more information).

In order to achieve this please follow the steps below:

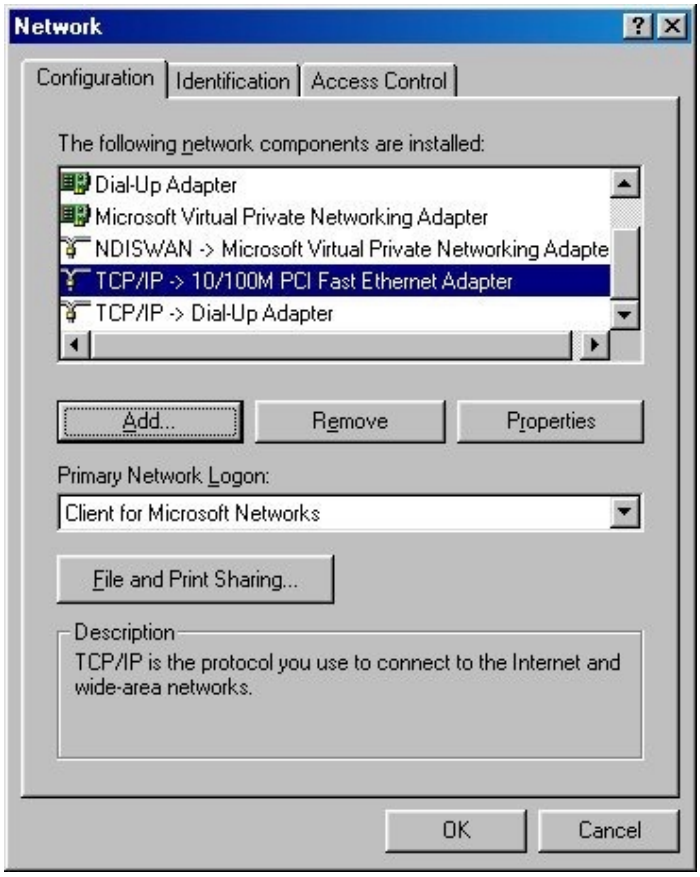



***Figure 76: Network configuration***

1. Open the Control Panel via "Settings" in the Start menu.
2. Select the "Networking" icon.
3. Use the mouse to select the TCP/IP entry for your Ethernet card.
4. Select "Properties".

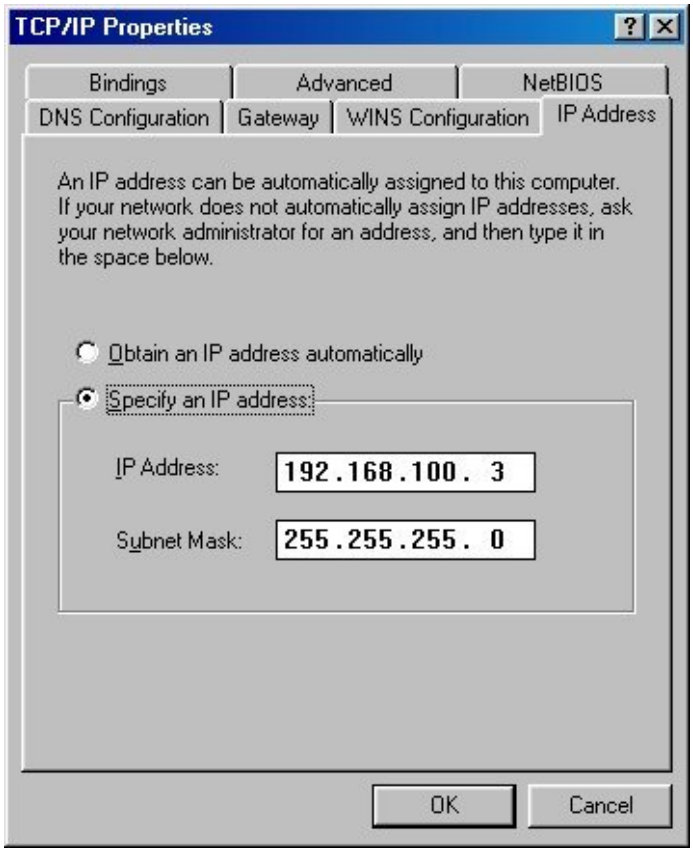



***Figure 77: Assigning an IP address***

5. Since your configuration PC must have an IP address for communicating with the Convision V6xx A, an address must be assigned at this point.
6. Select the "IP Address" tab.
7. Activate "specify an IP address".
8. Enter the IP address and the subnet mask.
9. Once these settings have been made on your computer, you will be able to communicate with your Convision V6xx A.

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# Appendix C Setting up a Terminal Program in Windows

*Figure 78: Creating a new connection*

1. Start the "Hyperterminal" program on your computer by clicking Start ⇨ Programs ⇨ Accessories ⇨ Hyperterminal.
2. First, a new connection must be created. To this end, double-click the Hyperterminal icon.
3. Enter a name for the new connection, e.g. "Convision V600", select an icon and click the "OK" button.

***Figure 79: Establishing a connection via the serial interface***

4. Then enter the serial interface of your computer, to which you connected the cable.

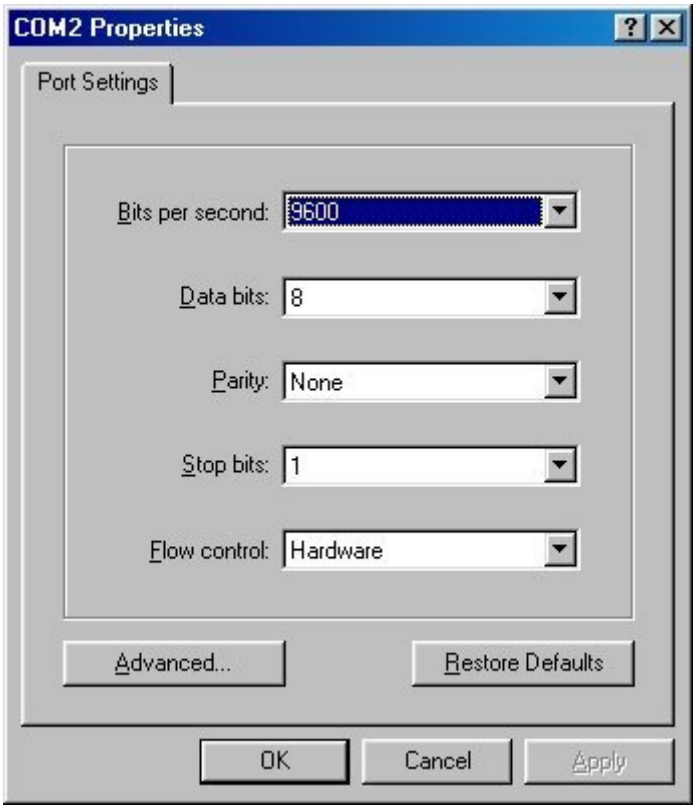



***Figure 80: Interface parameters***

5. Now you have to enter the connection parameters for the serial interface:

***Figure 81: Newly created connection***

6. As soon as you have confirmed these parameters with OK, a new icon "Convision V600" will be displayed, assuming this is the name you entered in step

Now you have configured your terminal program for the initial configuration the unit via the serial interface (refer to Chapter 6.4).

# Appendix D Setting up the Browser

To be able to communicate with the Convision V6xx A, a Java-compatible Internet browser such as Netscape Navigator 4.x or Microsoft Internet Explorer 4 or later is required.

## a - Setting up Netscape Navigator

After the installation of the Netscape Navigator different settings are necessary depending upon the connection to the Convision V6xx A.

### Setup in the Case of a LAN Connection

If you are not able to establish a connection with the following settings, contact your network administrator.

### Setup in the Case of a Cross-Connect or ISDN Connection

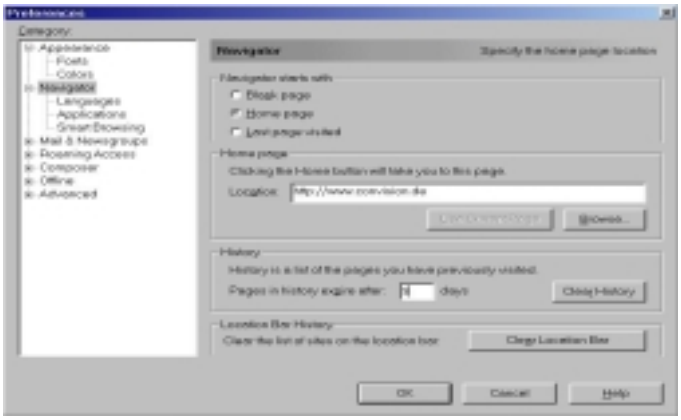


*Figure 82: Setting up Netscape Navigator*

1. Start Netscape.
2. Click "Preferences" in the "Edit" menu.
3. Now click the "+" sign under the "Advanced" option using the mouse, and then click on "Proxies".

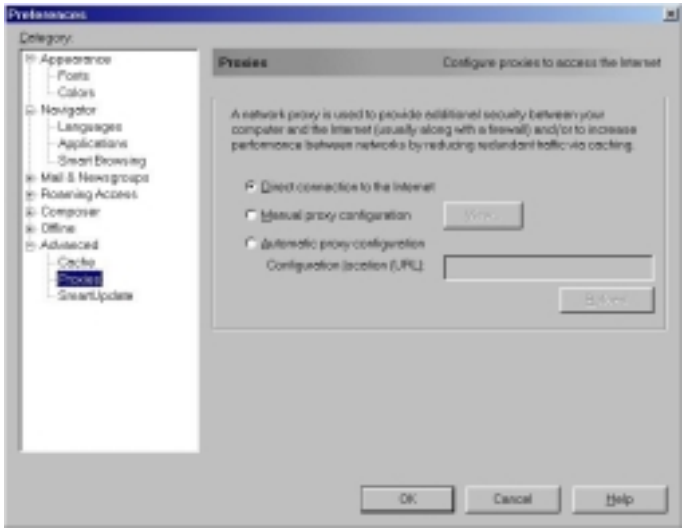



***Figure 83: Setting up Netscape Navigator***

4. Select the "Direct connection to the Internet" option and click the "OK" button to accept the default settings.

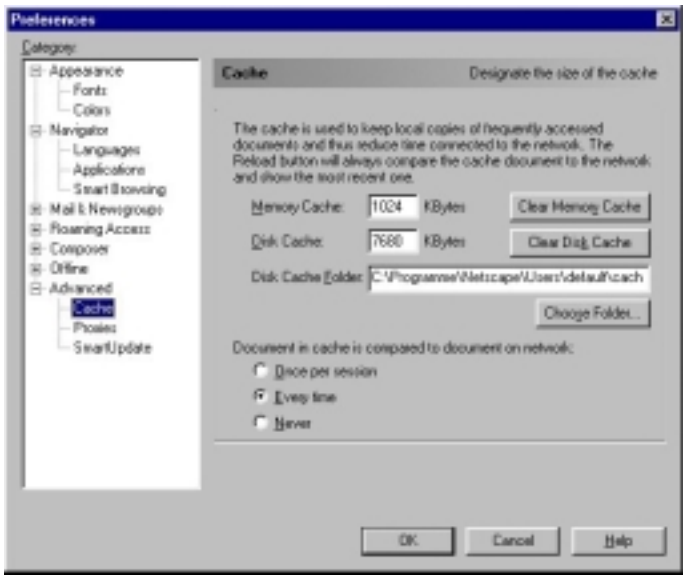



***Figure 84: Setting up Netscape Navigator***

Make sure that the browser does not load any documents from the cache.

5. Now select "Advanced / Cache"
6. In the "Document in the cache is compared to document on network:" section select the "Every time" option.
7. Save the settings and restart the browser.

# b - Setting up Microsoft Internet Explorer

MS Internet Explorer is either part of the Windows operating systems or available from Microsoft as an option.

1. To install the browser, select the "Software" menu in the Control Panel accessed via "Settings" in the "Start" menu.
2. Click "Add".
3. Select Internet Explorer.
4. Follow the instructions of the setup program.

## Setting up Internet Explorer for a LAN or ISDN Connection

To configure Internet Explorer for access to the Convision V6xx A with a cross-connect cable or ISDN connection, you have to perform a few additional settings:

***Figure 85: Setting up Microsoft Internet Explorer***

1. Start Internet Explorer.
2. In the "Tools" menu, select the "Internet Options" item.
3. Click the "Connections" tab.
4. Activate the "Never dial a connection" button.
5. The connections you set up are displayed in the "Dial-Up Settings" field.
6. Select the dial-up connection to the "Convision V600" and click the "Settings" button.

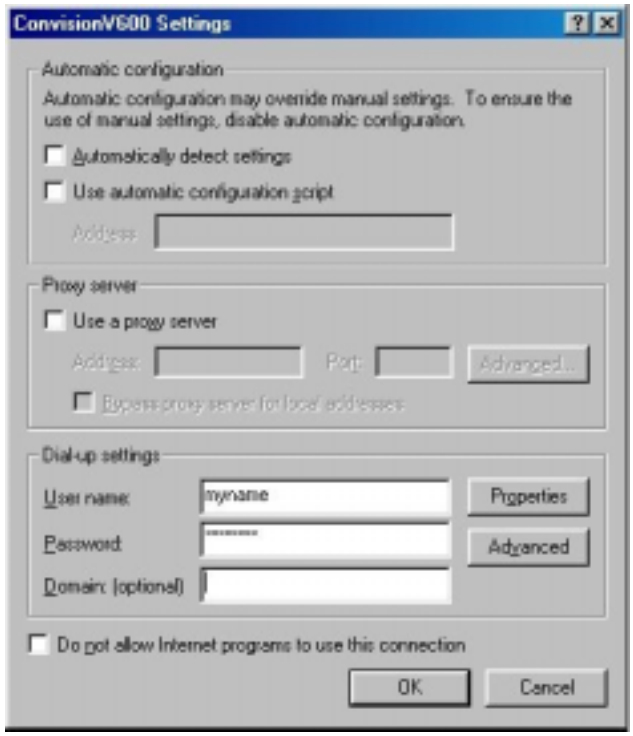



***Figure 86: Setting up Microsoft Internet Explorer***

7. If you defined a PPP-password for your Convision V6xx A, (refer to Chapter 9.1.2), you can enter it in the dialog box displayed. Enter the user name and password.
8. Click the "OK" button.
9. Click the "Programs" tab in the "Internet Options" dialog box and select the software to be used e.g. for receiving e-mails.

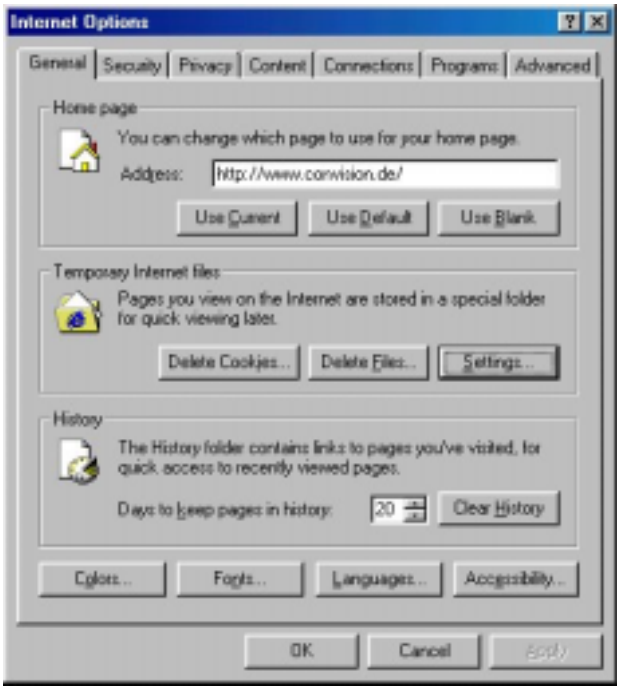



***Figure 87: Cache settings in Microsoft Internet Explorer***

Now you have to make sure that the browser does not load any documents from the cache.

10. For this purpose, click the "General" tab.
11. Click the "Settings" button in the "Temporary Internet files" field.

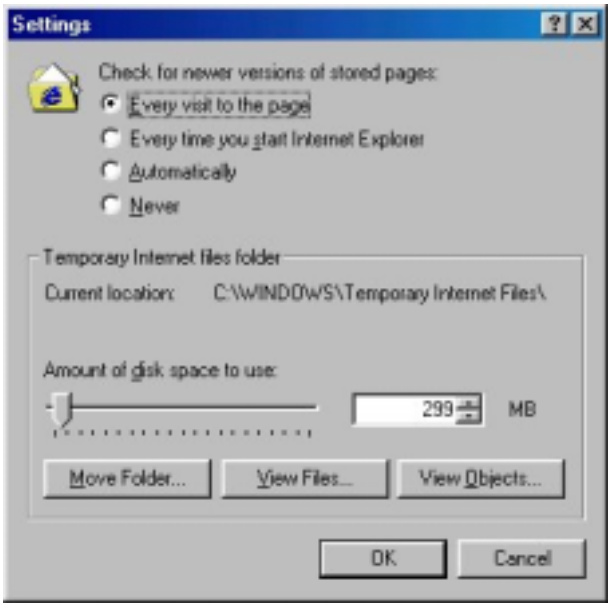



***Figure 88: Cache settings in Microsoft Internet Explorer***

12. In the "Check for newer versions of stored pages" field select the "Every visit to the page" option.
13. Save the settings and restart the browser.

## Settings for Downloading and Displaying the Convision Video ActiveX Plugin

Security Warning
Do you want to install and run "Convision Technology Video ActiveX Control" signed on 12/3/01 3:39 PM and distributed by:
Convision Technology
Publisher authenticity verified by GlobalSign Object Publishing CA
Caution: Convision Technology asserts that this content is safe. You should only install/view this content if you trust Convision Technology to make that assertion.
Always trust content from Convision Technology
Yes
No
More Info

***Figure 89: ActiveX settings in Microsoft Internet Explorer***

1. When you call a frame stream with ActiveX for the first time, the plugin will automatically be installed on your computer after a security prompt. Thereafter, the camera frames will always be displayed without any prompts.
2. This message is displayed in Windows XP.

Security Warning
Warning: The authenticity of this content cannot be verified, therefore it cannot be trusted.
Problem listed below:
The root certificate has not been enabled for the requested use.
Do you want to install and run "Convision Technology Video ActiveX Control" signed on 12/3/01 3:39 PM and distributed by:
Convision Technology
Yes
No
More Info

***Figure 90: ActiveX settings in Microsoft Internet Explorer***

3. Windows 9x, NT, ME and 2000 display this message.
4. Click on the "Convision Technology" link to retrieve detailed information on the certificate.
5. Click "Yes" to install the plugin and certificate. If you cancel the installation, the camera frames cannot be displayed with the ActiveX plugin. Instead of the frame, a small red "X" will be displayed.

***Figure 91: ActiveX settings in Microsoft Internet Explorer***

Setting browser security options that are too strict may prevent a download from the Convision V6xx A or a later execution of the plugin. You can change the security options as follows:

6. In your Internet Explorer, select "Internet Options" in the "Tools" menu.
7. On the "Security" tab, click on the "Internet" icon and then on the "Default level" button to select the "Medium" security level.
   These are the default settings after installation.

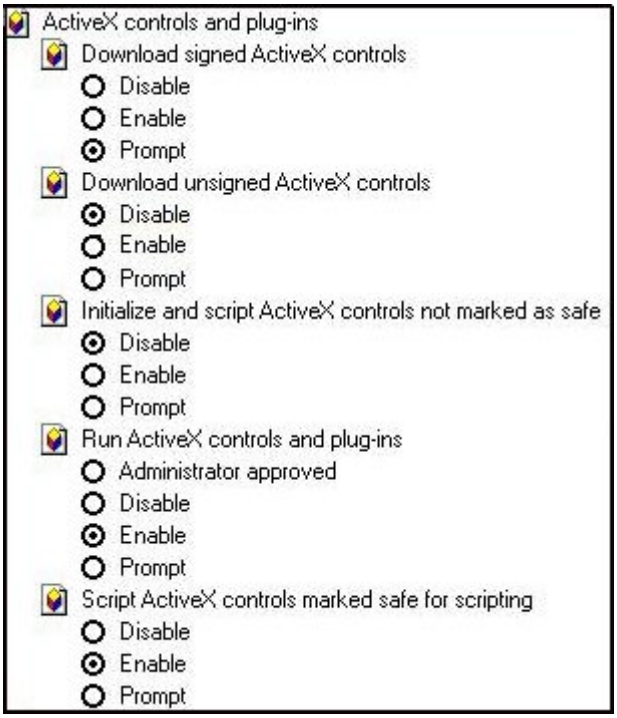



***Figure 92: ActiveX settings in Microsoft Internet Explorer***

8. Click the "Custom level" button and check whether the security settings are too strict for ActiveX.
9. Change the settings according to the graphics.
10. Save the data.

# Appendix E FAQ – Frequently Asked Questions / Troubleshooting

| Connection | |
|---|---|
| Why can't I establish a connection to the Convision V6xx A via ISDN? | Is the Convision V6xx A switched on?<br>Did you enter the correct MSN for the Convision V6xx A?<br>Is the line busy?<br>When connecting via a telephone system, do you have to enter "0" or "00" as a prefix?<br>Check the settings for the proxy server in your Internet browser. It should be set either to direct access to the Internet, or - with manual configuration - the IP address of the Convision V6xx A should be entered as an exception.<br><br>Tip: Are the Convision V6xx A and the computer connected to the same $S_0$ bus?<br>Try a different $S_0$ bus.<br><br>Windows NT only:<br>Check whether RAS and dial-up networking are correctly installed. |
| Why can't I establish a connection to the Convision V6xx A via a LAN? | Is the Convision V6xx A switched on?<br>Is the IP address of the Convision V6xx A correct? If not, assign one using the Convision IPSetup tool.<br>Is TCP/IP installed and configured on the computer?<br>Check the settings for the proxy server in your Internet browser. It should be set either to direct access to the Internet, or - with manual configuration - the IP address of the Convision V6xx A should be entered as an exception. |
| Does the Convision V6xx A affect the performance of the LAN? | If the Convision V6xx A is accessed frequently, it may affect the transfer rate in the network. |

| | |
|---|---|
| To what extent does the Convision V6xx A affect the performance of the LAN? | Up to 450 KB per second during image streaming. If the load is too high, reduce the refresh rate. |
| Can the Convision V6xx A also be operated in 100 Mb networks? | Yes, but only if it is integrated via an 'Auto-Sense-Hub'. |
| How can I connect the Convision V6xx A directly to a computer? | Computer with network card: Connect the computer and the Convision V6xx A via a twisted-pair cable (cross-connect cable).<br>Windows-based PC via PC direct connection using a null modem cable. |
| Why can't I establish a connection via a cross-connect cable? | Are you using a 10 Mb network adapter?<br>Has the network adapter been registered under "Network" on the computer?<br>Have the IP address and the subnet mask been entered?<br>Is TCP/IP installed and configured on the computer?<br>Check the settings for the proxy server in your Internet browser. It should be set either to direct access to the Internet, or - with manual configuration - the IP address of the Convision V6xx A should be entered as an exception. |
| Why can't I establish a connection to the Convision V6xx A via a modem? | Is the Convision V6xx A switched on?<br>Is the modem switched on?<br>Is the modem connected to the COM2 port of the Convision V6xx A?<br>Has "Modem" been selected in the System / ISDN / General" menu?<br>Has "Modem / GSM" been set in the interface configuration and was the Convision V6xx A rebooted?<br>Did you enter the correct settings for your modem?<br>Only modem to modem connections are possible. Connections to a modem via ISDN are not possible. |
| Why can't I establish a connection to the provider although I entered the correct PPP identification and password? | Have you activated Password encryption Deactivate this option and repeat the connection attempt. Some providers appear to accept encoding, but then the submission of the password fails. |

| | |
|---|---|
| Why doesn't GSM work with the Convision V6xx A? | Is the Convision V6xx A switched on?<br>Did you configure the Convision V6xx A for GSM (PIN)?<br>Has the data number of the SIM card been specified as the MSN?<br>***Note:*** *Before you can use GSM for the first time, the Convision V6xx A must be configured via a different interface.*<br>Did you insert the SIM card properly in the Convision V6xx A?<br>Has the antenna been connected properly and does it receive data?<br>Has the Convision V6xx A been registered in the mobile telephone network? (Test GSM)<br>Has "Modem / GSM" been set in the interface configuration and was the Convision V6xx A rebooted?<br>Are the settings you made for the GSM modem correct? |
| Can I call the Convision V6xx A via GSM? | No because a special telephone number was assigned that can only be used for data transfer. |

| **Messages** | |
|---|---|
| Which Internet provider can I use? | You can use any Internet provider with e-mail access who supports PPP dial-up with PAP or CHAP authentication. |
| What is the maximum permissible length of an e-mail? | An e-mail message may consist of 256 characters plus images. |
| To how many recipients can I send an e-mail? | You can enter as many as 10 recipients separated by a semicolon. |
| How many characters can be sent via SMS? | The maximum permissible length of an SMS is 160 characters. You cannot attach any images. |
| Is a dialing pause possible for telephone systems? | No. |

| | |
|---|---|
| E-mails are not being sent. | Incorrect Internet provider data or default router not entered.<br>Entry of e-mail sender address missing or incorrect.<br>Entry of SMTP server missing or incorrect.<br>Entry of DNS server missing or incorrect.<br>The telephone system may not permit calls to numbers starting with 010… In this case, use a different Internet-by-call provider or Internet provider (e.g. T-Online via 0191011...).<br>Tip: Try entering the IP address of the SMTP server instead of the name. |

| **Camera** | |
|---|---|
| A camera image is not displayed although a camera is connected. | The camera is not supplied with voltage.<br>The camera is not switched on.<br>The video cable is not connected or defective. |
| The control panel of a controllable camera is not displayed on the user interface (browser window). | The control cable is not connected or defective.<br>The Convision V6xx A must be rebooted after a camera has been connected. |
| What types of cameras can be connected to the Convision V6xx A? | Any camera with a PAL or NTSC output. It is connected to the Convision V6xx A via a BNC connector (male). |
| What kind of video cable do I need to connect the cameras? | You should use a high-quality coaxial cable with a low attenuation factor (75 Ω). |
| What is the maximum permissible length of a video cable? | If you supply the camera with voltage via the video cable, it should not exceed 50 m.<br>If the video cable is longer, the camera must be supplied with power via a separate cable.<br>If the cable is longer than 100 m, the quality of the video signal may deteriorate. The maximum length supplied by us is 300 m. |
| How is a controllable camera connected? | The control unit is connected via an 8-pin mini DIN to 9-pin sub-D coupling. The image is transferred via a cinch cable with BNC adapter. The power supply is autonomous. |

| | |
|---|---|
| How many controllable cameras can I connect? | You can connect a maximum of six controllable cameras.<br>The cameras are connected in series, only the first one is directly connected to the Convision V6xx A. |

| **Security** | |
|---|---|
| How can I protect the Convision V6xx A against unauthorized access? | The Convision V6xx A features several safety levels:<br>1. The entire Convision V6xx A can be protected in general<br>2. The configuration can be protected.<br>3. The recording sector can be protected.<br>Apart from these three levels, there is a password protection for PPP access via ISDN.<br>Similar to other network topologies, the operator is responsible for assigning passwords. |
| Is external access to the LAN possible via the Convision V6xx A when using ISDN? | No, the Convision V6xx A is not a router. |
| What happens in the event of a power failure? | Without an emergency power supply, the Convision V6xx A will be switched off. The configuration will not be lost as it is saved in a flash ROM.<br>After the power failure, the Convision V6xx A will reboot and start with the preset tasks. |
| Are the former configuration settings retained during an update? | Yes. |
| When I perform an update, will the ISDN connection be maintained? | No, you have to re-establish the connection. |
| What is the login name for the administrator? | The login name for the administrator is "admin". |
| What is the login name for the user? | The login name for the user is "user". |
| What is the login name for the recording sector? | The login name for the recording sector is "record". |

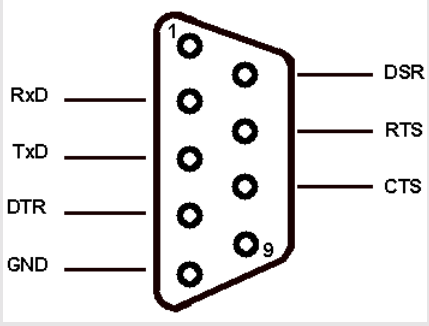
| | |
|---|---|
| The Convision V6xx A does not permit any access after the access protection feature has been enabled. | Try using the login name "admin" and a blank password field.<br>Try using the login name "admin" and the password you assigned.<br>The last possibility is to delete the configuration. |

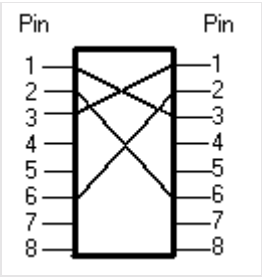
| **LED indicators** | |
|---|---|
| Why does the Online LED flash? | The Convision V6xx A has not yet been configured. |
| Why doesn't the Camera LED light up although a camera is connected? | The LED is updated only when you reboot the Convision V6xx A or when a camera image is displayed. |
| What does it mean when LED 1 is permanently lit and LED 6 is flashing? | The firmware of the Convision V6xx A has been deleted. You need to re-program it! (Call the support hotline!) |
| What does it mean when LED 1 and LED 2 are flashing? | Error when transferring firmware data to the Convision V6xx. The Convision V6xx A is not operable.<br>You need to re-program it! (Call the support hotline!) |

| **Browser** | |
|---|---|
| In Server Push mode, the Netscape Browser gets stuck after some time. | Due to an error in Netscape Navigator, the Server Push connection breaks down after a while.<br>To avoid this, use the Java applet for image streams, which will automatically re-establish a connection after a breakdown.<br>***Note:*** *For continuous monitoring, use the feature to record to hard disk.* |
| When using the HTML user interface, not all the functions are available? | Javascript, Java and Cookies must be enabled in your browser. |
| What do the terms server push and Java applet mean? | Server Push is a function in Netscape Navigator for displaying JPEG images as image streams. For other browsers, the Java applet must be used. |

| | |
|---|---|
| Former or incorrect parameters are displayed despite correct setting of the configuration parameters. | Make sure that the browser does not load documents from the cache (refer to Appendix D). |
| Images are not displayed in ActiveX mode. | The Convision ActiveX plugin must be loaded. The security settings of the browser must permit loading and executing ActiveX plugins. The processor of your computer must have an MMX extension. |

## General

| | |
|---|---|
| In what temperature range does the Convision V6xx A operate? | The Convision V6xx A operates in a temperature range of from 0 °C to 55 °C. |
| Can I perform a remote reset of the Convision V6xx A ? | Yes, e.g. select Configuration / System / FTP and save the settings without any changes. Then click the "Reboot" button. |
| Is the Convision V6xx A equipped with an interface for a mobile telephone? | No, but the Convision V611 A is available with an integrated GSM modem. |
| How many users can access the Convision V6xx A simultaneously via the LAN? | Depending on the task, up to 20 users. |
| How many users can access the Convision V6xx A simultaneously via ISDN? | Two simultaneous connections can be set up, if channel bundling (also with Convision Call) is enabled, only one.<br>Via Convision Call without channel bundling the number is theoretically higher but due to the small bandwidth of the line the transmission rate is very low. |
| What is the pin assignment of the D-Sub9 connector (female) of the serial interface? |  <br>Pins 1 and 9 are not assigned. |

| | |
|---|---|
| What is the pin assignment of a cross-connect cable? |  |
| Does the Convision V6xx A also work with other operating systems? | The Convision V6xx A is PLATFORM-INDEPENDENT.<br>It can be used on any system with an Internet browser (Netscape Navigator or Internet Explorer) installed, e.g. IRIX 6.2, Linux 2.2 or MacOS. |

# Appendix F Declaration of Conformity

CE

## KONFORMITÄTSERKLÄRUNG
DECLARATION OF CONFORMITY

Geräteart: Micro Web Server
Type of equipment:

Produkt / Product : **Convision V600 A Series**

Das bezeichnete Produkt stimmt mit den Vorschriften folgender EU- Richtlinie(n) überein:

The aforementioned product complies with the following European Council directive(s):

| | |
|---|---|
| 93/97/EWG | EG EMV- Richtlinie / EC EMC directive |
| 1999/5/EG | EG Telekommunikationsendeinrichtungen - Richtlinie<br>EC Telecommunications terminal equipment directive |

Zur vollständigen Einhaltung der EMV- Richtlinie wurden folgende Normen herangezogen:

To fully comply with the EMC directive, the following standards have been used:

| | |
|---|---|
| EN 55022 Class B | : 1987 |
| EN 50081-1 | : 1995 |
| EN 50082-2 | : 1995 |

Dieser Erklärung liegt zugrunde: Prüfungen im EMV- Prüflabor

This certification is based on: Tests in EMI test laboratory

Aussteller / Holder of certificate : **Convision Technology GmbH**
**Zuckerbergweg 22**

**38124 Braunschweig**
**Germany**

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# Appendix H List of Keywords


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